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FINAL PHASE II  
DATA ADDENDUM  
SITE 36-3: INSECTICIDE PIT

September 1988  
Contract Number DAAK11-84-D-0016  
(Version 3.1)

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Rocky Mountain Arsenal

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SITE 36-3: INSECTICIDE PIT

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PREPARED BY

ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.  
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PREPARED FOR

U.S. ARMY PROGRAM MANAGER'S OFFICE FOR ROCKY MOUNTAIN ARSENAL

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### SITE 36-3: INSECTICIDE PIT

#### 1.0 PHASE II PROGRAM

As a result of the Phase I contamination assessment at Rocky Mountain Arsenal (RMA), a Phase II program was initiated at Site 36-3 in the summer of 1987. The Phase II program was generally conducted as presented in the Phase I Contamination Assessment Report (CAR) (ESE, 1987a, RIC#87203R01), except that several samples were collected from intervals which were not proposed in the Phase I CAR. Table 36-3-II-1 summarizes variances from the proposed Phase II program as well as field observations noted during Phase II drilling.

The Phase II investigation of Site 36-3 consisted of 28 borings yielding 76 samples. Twelve borings were drilled along the perimeter of the Phase II site boundaries. Eight borings were drilled at specific locations within the site boundaries to verify the absence of disposal trenches. Five borings were drilled at inner-trench locations, and three deep borings were drilled along an east-west line in the approximate center of Site 36-3.

Soil samples were collected using the continuous soil sampling method detailed in the Task 1 Technical Plan (ESE, 1985, RIC#85127R07). Samples were obtained at predetermined intervals unless field conditions (e.g., depth to water table, staining, etc.) necessitated adjustment of the interval selections. Variances from the Phase II program and collection of three additional samples were necessary because of the complexity of Site 36-3.

None of the Phase II borings drilled at Site 36-3 encountered bedrock, but 19 borings intercepted the water table. These borings are summarized below:

<u>Boring Number</u>	<u>Depth Drilled (ft)</u>	<u>Depth to Water Table (ft)</u>
3437	5	5
3438	5	4
3439	5	4
3442	7	6
3443	8	8

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Table 36-3-II-1. Variances from Proposed Phase II Program and Phase II Field Observations (Page 1 of 4)

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Comments
3442	7	6	The water table (W.T.) was estimated to be at 10 ft in the proposed Phase II program; the W.T. was encountered at 6 ft. The 0- to 1-, 4- to 5-, and 5- to 6-ft intervals were submitted for analysis, and the 5- to 6-ft interval was analyzed for volatiles and semivolatile organic compounds by GC/MS. This boring is located in the revised northwestern portion of Site 36-3.
3443	8	8	This boring is located in the northwestern revised site boundary. The W.T. was encountered at 8 ft, and the 7- to 8-ft interval was consequently submitted for analysis instead of the 9- to 10-ft interval.
3444	10	10	This boring was relocated after a hard object (possibly concrete) was encountered at 3 ft, and the original boring was abandoned. The new location was 2 ft east and 2 ft north. An additional sample was submitted for analysis (3-to 4-ft interval) because of soil discoloration noted by the field geologist. The water table was encountered at 10 ft, and a PID reading of 38 was recorded off the 9- to 10-ft sample. Depth to the base of the disposal trench material was 4 ft.
3445	12	12	Five sampled intervals were submitted for analysis: the three intervals as planned in the Phase II program (0- to 1-, 4- 5-, and 9- to 10-ft) and two additional intervals (5- to 6- and 6- to 7-ft). The 5- to 6-ft interval contained a black fibrous material, and the 6- to 7-ft interval was saturated with a



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Table 36-3-II-1. Variances from Proposed Phase II Program and Phase II  
Field Observations (Page 2 of 4)

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Comments
			black oily fluid. The depth to the base of the disposal trench was 8 ft.
3446	9	8	The first attempt at completing this boring resulted in auger refusal at 3.8 ft. Quartzite chips were noted in the end of the sampling shoe. The boring was relocated 2 ft north and 7 ft east. A shallow subsidence feature was noted approximately 6 ft north of this location. This boring encountered a void space from 4 to 5 ft. A PID reading of 90 was registered in the auger annulus. A bluish-green clayey material was noted in the 5- to 6-ft interval which was submitted for analysis. The 7- to 8-ft interval was also submitted for analysis when the water table was encountered at 8 ft. Depth to the base of the disposal trench was estimated at 8.0 ft.
3448	7	7	The water table was encountered at 7 ft. The 6- to 7-ft interval was submitted for analysis instead of the proposed 9- to 10-ft.
3449	11	9	The water table was encountered at 9 ft, although the boring was drilled to 11 ft. The 0- to 1-, 4- to 5-, and 8- to 9-ft intervals were submitted for analysis; the 9- to 10-ft interval had been proposed in the Phase I CAR.
3450	9	7	The first attempt at drilling resulted in auger refusal at 3.5 ft (possibly concrete). This boring was relocated 8 ft east and 8 ft south and was completed to 9 ft. An asphalt-type material was encountered while drilling the 1- to 4-ft interval. This boring was drilled through the asphalt/concrete to 5.5 ft.

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Table 36-3-II-1. Variances from Proposed Phase II Program and Phase II  
Field Observations (Page 3 of 4)

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Comments
			Soil became saturated at 7 ft (water table). The 0- to 1-, 6- to 7-, and the 7- to 8-ft intervals were sampled.
3451	10	4	Site geologist noted saturated conditions at 3.5 ft (W.T.). The boring was continued when a black oily material was removed from the sampler shoe at the 4- to 5-ft interval. At 7 ft, plastic sheeting was noted in the drill cuttings, and silty sand mixed with a black oily sludge and plastic was noted in the 8- to 9-ft interval. The 0- to 1-, 3- to 4-, and the 8- to 9-ft intervals were submitted for analysis.
3453	9	7	This boring was scheduled to have the 0- to 1-, 4- to 5-, and the 9- to 10-ft intervals analyzed. Poor recovery resulted when voids were encountered from 4- to 5- and 6- to 9-ft (possibly empty 55-gallon drums). The water table was estimated to be at 7 ft based on the waterline on the sample barrel. The 0- to 1- and 5- to 6-ft intervals were submitted for analysis. The depth to the base of the disposal trench was 9 ft.
3456	17	9	This boring was drilled to 17 ft instead of 15 ft as proposed in the Phase I CAR, although the water table was encountered at 9 ft. Poor recovery from 9 to 15 ft due to flowing sand conditions. The 15- to 17-ft interval was recovered. MKE subsampled the 15- to 16-ft interval, and the 16- to 17-ft interval was submitted for analysis along with the 0- to 1-, 4- to 5-, and 8- to 9-ft intervals. Debris material was observed in this boring.

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Table 36-11-1. Variances from Proposed Phase II Program and Phase II  
Field Observations (Page 4 of 4)

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Comments
3457	14	9	While drilling the 1- to 4-ft interval, the augers dropped 2 ft through a subsurface void, and soil in the end of the sampling shoe contained an orange oxide material. Another void was encountered from 7 to 9 ft. The PID reading in the auger annulus registered 76. An oily sheen was noted on the outer surface of the soil sample from the 13- to 14-ft interval. W.T. at 9 ft after completion of the boring. The 0- to 1-, 8- to 9-, 9- to 10-, and 13- to 14-ft intervals were submitted for analysis. The base of the disposal trench was estimated at 9 ft.
3458	14	8	This boring was drilled to 14 ft, although the water table was encountered at 8 ft. Poor recovery on the 4- to 5-ft interval resulted in the 5- to 6-ft interval being submitted for laboratory analysis. A black discoloration in the 7- to 8-ft interval was noted and subsequently submitted for analysis. Also submitted were the 0- to 1- and 13- to 14-ft intervals. Trench debris material was not observed from soil samples obtained from this boring.

Source: ESE, 1988.

3444	10	10
3445	12	12
3446	9	8
3447	10	9
3448	7	7
3449	11	9
3450	9	7
3451	10	4
3452	5	5
3453	9	7
3454	10	10
3456	17	9
3457	14	9
3458	14	8

Prior to any Phase II drilling, the Program Manager's Office (PMO), Environmental Science and Engineering (ESE), Morrison-Knudsen Engineers (MKE), and Harding Lawson Associates (HLA) formulated procedures for MKE to obtain subsamples from selected soil cores during Phase II drilling. Results from the MKE subsamples were not available prior to the distribution of this report, but will be incorporated in the Central Study Area. MKE requested subsamples of the 1- to 4-foot (ft) intervals of all 28 Phase II borings at Site 36-3, and further requested laboratory splits and subsamples from borings as summarized below:

Boring Number	MKE Lab Split ----(ft)----	MKE Subsample ----(ft)----
3440	0-1	-
3443	0-1	6-7
3456	-	7-8, 15-16
3457	-	4-5, 12-13
3458	-	6-7, 12-13

The Phase II analytical program at Site 36-3 was conducted as set forth in the Phase I CAR, except that three additional samples (Boring 3444, 3- to 4-ft and Boring 3445, 5- to 6- and 6- to 7-ft intervals) were submitted for analyses. The 0- to 1-, 4- to 5-, and the 7- to 8-ft intervals of Boring 3443 were not analyzed for fluoroacetic acid (FC2A), and Boring 3458 (13 to 14 ft) was not analyzed for diisomethylphosphonate (DIMP), because holding times were exceeded. The analytes, analytical methods, and number of samples analyzed for the Phase II program at Site 36-3 are summarized below:

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Analytes	Analytical Method	Number of Samples
Mercury (Hg)	Atomic absorption (AA)*	28 0- to 1-ft interval
Organochlorine pesticides (OCP)	Gas chromatography electron capture (GCEC)	76 all samples
Organophosphorus compounds (OPC)	Gas chromatography flame photometric (GCFPD)	75 all samples except 3458 (13 to 14 ft)
Organosulphur compounds (OSC)	GCFPD	76 all samples
Dibromochloro-propane (DBCP)	Gas chromatography (GC)*	76 all samples
Volatile hydrocarbon compounds (HYDCBN)	Gas chromatograph flame ionization detector (GCFID)	76 all samples
Volatile halocarbon compounds (VHO)	Gas chromatography conductivity detector	48 all samples except the 0- to 1-ft intervals
Volatile aromatic compounds (VAO)	Gas chromatography photo-ionization detector (GCFID)	48 all samples except the 0- to 1-ft intervals
Semivolatile (SVO)	Gas chromatography/mass spectrometry (GC/MS)*	16 10 percent organics confirmation
Volatile organic Compounds (VO)	GC/MS*	12 10 percent confirmation
Army Agent Degradation Products (ADP):		
Thiodiglycol (TDGCL)	High-performance liquid chromatography (HPLC)	10 Borings 3443, 3454, and 3457
Isopropylmethyl-phosphonic acid (IMPA)**	Ion Chromatography (IONCHROM)	10 Borings 3443, 3454, and 3457

\* Method used in Phase I and Phase II programs.

\*\* Only seven samples were analyzed for FC2A, as holding times were exceeded.

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Phase II samples were analyzed for mercury, organochlorine pesticides (OCPs), organosulphur compounds (OSCs), DIMP, dicyclopentadine (DCPD), volatile halocarbon (VHO), and volatile aromatic compounds (VAO), as Phase I samples contained compounds from these groups. Selected samples from the three regions were analyzed for thiodiglycol (TDGCL) and isomethylphosphonate (IMPA) to screen for Army Agent Degradation Products (ADPs), because the ADP methods were not available during the Phase I program. Included in the analyses were 10 percent confirmation samples run by gas chromatograph/mass spectrometry (GC/MS) screening techniques. Confirmation samples were used not only to confirm GC compound-specific methods, but to identify other compounds that may be present.

In the Phase I program, samples were analyzed for OCPs, OSCs, and DIMP by GC/MS under the grouping of "semivolatile organic compounds" and for VHO, VAO, and DCPD under "volatile organic compounds". During the Phase II program, samples were analyzed for these compounds by GC compound-specific and GC/MS methods. The GC compound-specific methods are considered quantitative, and results are reported to two significant figures. In the GC/MS method, results are reported to one significant figure. Due to these differences, results obtained from the GC compound-specific and GC/MS methods may not be directly comparable. Phase I and Phase II methods were the same for mercury, DBCP, semivolatile organic (SVO), and volatile organic compounds (VO); therefore, the Phase I and Phase II results are directly comparable for these methods. Selected samples were analyzed for TDGCL and IMPA only in the Phase II program, as these methods were not available during the Phase I program. Appendix 36-3-II-A provides a complete list of analytes, analytical methods, and standard abbreviations used in the Phase I and Phase II investigations.

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## 2.0 PHASE II FIELD OBSERVATIONS

Site 36-3 is in the south-central portion of Section 36. Vegetation is very sparse at this site. Surface topography of east-west linear depressions suggests trenching activities. Caving of surface soil in and around rusted 55-gallon drums can be observed throughout the site as well as numerous glass bottles of different sizes. Many of the bottles contain liquids.

Observations during Phase II drilling at Site 36-3 are summarized in Table 36-3-II-1. These observations correlate with Phase I observations concerning evidence of disposal and trenching at Site 36-3.

For safety purposes, air monitoring was conducted using a photoionization detector (PID) during drilling operations. Air monitoring at this site detected measurable levels of contaminants within the breathing zone and in the hollow-stem annulus. PID readings ranged from background to 90.

An M18A2 test kit was used at this site to detect the presence of chemical agents in boreholes and soil samples. Specifically at RMA, the M18A2 test kit is used to detect Sarin (GB), VX, mustard (H), and Lewisite (L) based on the knowledge that these agents were manufactured, stored, or demilitarized at the site. The detection limit for H agents is 0.5 milligrams per cubic meter ( $\text{mg}/\text{m}^3$ ), and the detection limit for GB, VX, and L is 0.2  $\text{mg}/\text{m}^3$ . The detection limits for L and VX in soil are 5 parts per million (ppm) and 5.9 ppm, respectively. All M18A2 field test results for the detection of chemical agents at Site 36-3 were negative.

Samples at Site 36-3 were also analyzed for chemical agents by the RMA Surety Laboratory, because historical evidence indicated possible agent presence. A composite of intervals sampled was initially analyzed for GB, VX, H, and L. If agent had been detected, individual sample intervals from each boring would have been analyzed to identify stratigraphic location. No positive results from chemical agent testing were found at Site 36-3.

### 3.0 PHASE II GEOPHYSICAL EXPLORATION

No geophysical exploration was conducted at Site 36-3 for the Phase II investigation other than the borehole clearance program. The Phase II boring locations were cleared for safety purposes in accordance with the borehole clearance geophysical program as detailed in the Task 1 Technical Plan (ESE, 1985, RIC#85127R07). Borehole site clearance was used to ensure that drilling would not encounter buried unexploded ordnance (UXO) or other metal that could pose a significant safety risk. Magnetic intensity readings were obtained with a gradiometer. A 20-ft-square grid was centered on each boring location, and gradiometer readings were obtained at 5-ft intervals throughout the area. A contour map was prepared from the data and was used to place the boring in the safest location within the geophysical plot. Following borehole site clearance, a metal detector was used to check for surficial (0 to 2 ft) metal. Twenty-two of the 28 borings were relocated within their respective geophysical grid. Three of these borings (Borings 3444, 3446, and 3450) encountered impenetrable material (possibly concrete) and were relocated outside the geophysical grid (Table 36-3-II-1).



#### 4.0 PHASE II ANALYTE LEVELS AND DISTRIBUTION

Table 36-3-II-2 contains indicator ranges and a statistical summary of Phase II analytical results. A summary of analytical data for each sample, including lithology and air monitoring results, is presented in Table 36-3-II-3. A tabulation of all analytical data associated with the Phase II program at Site 36-3 is presented in Appendix 36-3-II-B.

To assess the significance of metal and organic analytical values, indicator ranges were established during the Phase I Program. For organic compounds, the indicator range is the method detection limit. For metals, a range of values was selected to reflect the upper end of the expected natural range for each metal as normally found in RMA alluvial soil. The procedure for establishing indicator ranges is presented in the Introduction to the Contamination Assessment Reports (ESE, 1987b, RIC#88204R02). Concentrations within or above indicator ranges for Phase I and Phase II data are presented in Figure 36-3-II-1.

The results of the Phase II sampling program are discussed separately in the following groups:

- Twelve perimeter borings
- Eight non-trench borings
- Five inner-trench borings
- Three deep central borings

##### Perimeter Borings

Twelve borings (Borings 3430 through 3443) were drilled outside the site boundary to a depth of 5 ft to investigate the extent of potential contamination resulting from surface grading or wind dispersion. Target analytes included OCPs, OPCs, OSCs, DBCP, and DCPD in the 0- to 1- and 4- to 5-ft intervals. The 0- to 1-ft intervals of these 12 borings were also analyzed for mercury, the only metal target analyte. VHO and VAO compounds were also targeted for the 4- to 5-ft intervals of these 12 borings.

Aldrin, isodrin, dieldrin, and endrin were the most prevalent OCPs detected in the perimeter soil samples. The 0- to 1-ft intervals of all perimeter borings contained OCPs. The highest concentrations were detected in

Table 36-3-11-2. Summary of Analytical Results for Site 36-3 Phase II Soil Samples (page 1 of 2)

Constituent	Number of Samples*	Concentrations (ug/g)					Indicator Level
		Range	Mean**	Median**	Standard Deviation**	ESE Detection Limit	
ORGANOCHLORINE PESTICIDES (N=76)*							
Hexachlorocyclopentadiene	2	0.004->8000	640	0.60	1800	0.0026	DL
Aldrin	38	0.003->680	58	0.54	150	0.0018	DL
Isodrin	30	0.003->730	81	0.038	180	0.0011	DL
DDT, PP*	9	0.003-1.9	0.38	0.004	0.75	0.001	DL
Dieldrin	54	0.003-370	31	1.3	79	0.0012	DL
Endrin	50	0.002->400	44	0.54	110	0.001	DL
DDT, PP*	8	0.003-0.27	0.049	0.020	0.090	0.0023	DL
Chlordane	1	0.44	--	--	--	0.11	DL
ORGANOSULFUR COMPOUNDS (N=76)*							
DMS	3	9.1-110	--	--	--	0.69	DL
1,4 Dithiane	3	3.3->12	--	--	--	0.57	DL
Chlorophenylmethyl sulfide	4	1.7-110	--	--	--	1.1	DL
Benzothiazole	2	61-260	--	--	--	1.1	DL
Chlorophenylmethyl sulfoxide	3	3.8-4.3	--	--	--	2.3	DL
DIMP (N=75)*							
DIMP	4	0.50-37	--	--	--	0.11	DL
DMPP	2	0.19-0.67	--	--	--	0.13	DL
DCPD (N=76)*							
Bicycloheptadiene	1	10	--	--	--	5.1	DL
Methylisobutyl ketone	3	9.0-21	--	--	--	5.2	DL
Dicyclopentadiene	4	8.6-140	--	--	--	5.1	DL
DBCP (N=76)*							
DBCP (Nemagon)	13	0.009-700	57	0.39	190	0.005	DL
VOLATILE HALOCARBON COMPOUNDS (N=48)*							
Methylene Chloride	8	0.18-0.63	0.39	0.37	0.15	0.15	DL
1,1-Dichloroethene	1	0.21	--	--	--	0.12	DL
Chloroform	13	0.16-7.2	1.5	1.0	2.1	0.10	DL
1,2-Dichloroethane	1	0.45	--	--	--	0.08	DL
Carbon Tetrachloride	3	>1.0	--	--	--	0.12	DL
Trichloroethene	3	0.11->1.0	--	--	--	0.09	DL
1,1,2-Trichloroethane	1	0.20	--	--	--	0.12	DL
Tetrachloroethene	12	0.20-17	2.6	1.0	4.7	0.12	DL
Chlorobenzene	1	>1.0	--	--	--	0.18	DL
VOLATILE AROMATIC COMPOUNDS (N=48)*							
Benzene	7	0.14-26	5.5	2.5	8.9	0.081	DL
Toluene	13	0.19-380	57	4.5	120	0.096	DL
Ethylbenzene	6	0.77-9.9	3.1	2.0	3.4	0.043	DL
m-Xylene	7	0.18-12	3.4	2.4	4.1	0.053	DL
O- and/or p-Xylene	7	0.16-15	5.0	3.1	5.1	0.086	DL

Table 36-3-11-2. Summary of Analytical Results for Site 36-3 Phase 1) Soil Samples (page 2 of 2)

Constituent	Number of Samples*	Range	Mean**	Median**	Standard Deviation**	Concentrations (ug/g)			Indicator Level
						ESE	MRI	Detection Limit	
IMPA									
Fluoroacetic Acid (N=7)+	4	2.9-19	--	--	--	2.0			DL
MPA (N=10)+	2	2.9-6.1	--	--	--	2.0			DL
TDGCL (N=10)+									DL
None detected									
VOLATILE ORGANICS (N=12)+									
Dichloropentadiene	6	2->300	90	6	100	0.3			DL
Ethylbenzene	5	0.5-10	3	0.7	4	0.3			DL
Methylene Chloride	5	0.6-0.8	0.7	0.7	0.07	0.3			DL
Tetrachloroethene	6	1-100	30	5	50	0.3			DL
Toluene	8	0.7-300	40	2	100	0.3			DL
Trichloroethene	3	0.8-3	--	--	--	0.3			DL
n-Xylene	6	1-10	4	2	5	0.3			DL
DMS	3	0.7->30	--	--	--	0.3			DL
Benzene	5	0.4-30	10	4	10	0.3			DL
O- and/or P-Xylene	5	2-10	5	3	4	0.5			DL
Carbon Tetrachloride	2	8-9	--	--	--	0.3			DL
Chloroform	6	1-10	5	5	3	0.3			DL
Bicycloheptadiene	3	0.9-60	--	--	--	0.3			DL
DBCP (Nemagon)	5	2->30	8	2	10	0.3			DL
SEMI-VOLATILE ORGANICS (N=16)+									
Aldrin	4	4-700	--	--	--	0.9			DL
Chlorophenylmethyl sulfide	1	20	--	--	--	0.3			DL
Chlorophenylmethyl sulfone	1	0.8	--	--	--	0.3			DL
DBCP (Nemagon)	2	4-100	--	--	--	0.3			DL
Dichloropentadiene	2	100-400	--	--	--	0.3			DL
Dieldrin	6	0.7-100	40	10	50	0.3			DL
Endrin	5	0.8-400	100	60	200	0.7			DL
Hexachlorocyclopentadiene	4	3-40000	--	--	--	1			DL
Isodrin	2	900-1000	--	--	--	0.3			DL
MERCURY (N=28)+									
Mercury	11	0.080-0.43	0.24	0.24	0.11	0.050		0.070	DL-0.10

\* Number of samples in which constituent was detected. Only these sample results were used in statistical analyses.

\*\* Statistics not calculated when constituent detected in fewer than five samples.

+ Number of samples analyzed by laboratory.

DL Detection limit.

Source: ESE, 1988.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 1 of 12)

Boring Number	3430	3430	3431	3431	3432	3432	3433	3433	3434	3434	3435	3435	3436
Depth (ft)	0-1	4-5	0-1	4-5	0-1	4-5	0-1	4-5	0-1	4-5	0-1	4-5	0-1
Geologic Material	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
<b>AIR MONITORING</b>													
PID#	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>SOIL CHEMISTRY</b>													
<b>Organochlorine Pesticides (OCP) (ug/g)</b>													
Hexachlorocyclopentadiene	<0.26	<0.18	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Aldrin	<0.18	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Isodrin	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
DDE, pp'	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Dieldrin	6.1	0.007	42	0.016	0.73	0.064	81	<0.012	9.5	<0.012	29	0.004	9.7
Endrin	2.0	0.002	8.6	0.12	0.12	0.013	19	BDL	0.73	BDL	1.7	BDL	1.8
DDT, pp'	0.003	BDL	<0.47	BDL	BDL	BDL	<0.47	BDL	0.27	BDL	<0.47	BDL	0.017
Chlordane	<11	BDL	<22	BDL	>0.44	BDL	<220	BDL	<11	BDL	<22	BDL	<11
<b>Organosulfur Compounds (OSC) (ug/g)</b>													
DMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dithiane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPHS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzothiazole	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPHSO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DIMP (ug/g)</b>													
DIMP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIMP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DCPD (ug/g)</b>													
Bicycloheptadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutyl ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DBCP (ug/g)</b>													
DBCP (Newagon)	BDL	BDL	0.014	BDL	BDL	BDL	0.009	BDL	BDL	BDL	BDL	BDL	BDL
<b>Volatile Halocarbons (VHO) (ug/g)</b>													
Methylene Chloride	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
1,1-Dichloroethene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
Chloroform	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
1,2-Dichloroethane	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
Carbon Tetrachloride	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
Trichloroethene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
1,1,2-Trichloroethane	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
Tetrachloroethene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
Chlorobenzene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ

< Higher detection limit due to dilution or soil matrix masking effects.  
 > Quantitative concentration was not achieved due to dilution constraints.  
 \* As calibrated to an isobutylene standard.  
 \*\* Detected in associated method blank.

BDL Below detection limit.  
 BKD No reading above ambient background.  
 NRQ Analysis not requested.  
 NA Not analyzed.

Table 36-3-(1-3). Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase 11 Soil Samples (page 2 of 12)

Boring Number	3430	3430	3431	3431	3432	3432	3432	3433	3433	3434	3434	3435	3435	3436
Depth (ft)	0-1	4-5	0-1	4-5	0-1	4-5	0-1	4-5	0-1	4-5	0-1	4-5	0-1	0-1
Geologic Material	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
<b>VOLATILE AROMATICS (VAO)</b>														
Benzene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	NRQ
Toluene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	NRQ
Ethylbenzene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	NRQ
n-Xylene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	NRQ
O- and/or P-Xylene	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	NRQ
<b>INPA</b>														
Fluoroacetic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylphosphonic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
<b>TDGCL</b>														
<b>Volatiles Organics (VO) by GC/MS</b>														
Dicyclopentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Ethylbenzene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylene Chloride	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Tetrachloroethene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Toluene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Trichloroethene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
n-Xylene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DMS	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Benzene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
O- and/or P-Xylene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Carbon Tetrachloride	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Chloroform	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Bicycloheptadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Neomagon)	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
<b>Semi-volatile Organics (SVO) by GC/MS</b>														
Aldrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMS	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMS02	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Neomagon)	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dicyclopentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dieldrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Endrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Hexachlorocyclopentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Isodrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Mercury	BDL	NRQ	0.24	NRQ	BDL	NRQ	0.43	NRQ	0.088	NRQ	0.26	NRQ	0.11	

&lt; Higher detection limit due to dilution or soil matrix masking effects.

&gt; Quantitative concentration was not achieved due to dilution constraints.

\* As calibrated to an isobutylene standard.

\*\* Detected in associated method blank.

BDL Below detection limit.

NRQ No reading above ambient background.

NRQ Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase 11 Soil Samples (page 3 of 12)

Boring Number	3436	3437	3437	3438	3438	3439	3439	3440	3441	3441	3442	3442
Depth (ft)	4-5	0-1	4-5	0-1	4-5	0-1	4-5	0-1	4-5	0-1	4-5	4-5
Geologic Material	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
<b>AIR MONITORING</b>												
PID*	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>SOIL CHEMISTRY</b>												
<b>Organochlorine Pesticides (OCP) (ug/g)</b>												
Hexachlorocyclopentadiene	BDL	<0.52	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin	0.005	190	BDL	0.052	BDL	0.042	BDL	BDL	0.011	BDL	<0.18	BDL
Isodrin	BDL	<11	BDL	BDL	BDL	BDL	BDL	BDL	0.34	BDL	BDL	BDL
DDE, pp'	BDL	<0.20	BDL	BDL	BDL	BDL	BDL	BDL	0.019	BDL	0.005	BDL
Dieldrin	0.003	230	BDL	0.17	BDL	BDL	BDL	BDL	0.014	BDL	0.004	BDL
Endrin	BDL	73	BDL	0.004	BDL	0.023	BDL	BDL	4.4	0.26	1.2	0.067
DOT, pp'	BDL	<0.47	BDL	BDL	BDL	BDL	BDL	BDL	0.36	BDL	<0.10	BDL
Chlordane	BDL	<1100	BDL	BDL	BDL	BDL	BDL	BDL	0.033	BDL	0.009	BDL
<b>Organosulfur Compounds (OSC) (ug/g)</b>												
DMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<11	BDL
1,4 Dithiane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzothiazole	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPSO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>Organophosphorus Compounds (OPC) (ug/g)</b>												
DIMP	BDL	BDL	0.50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIMP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>Organochlorine Compounds (OCC) (ug/g)</b>												
Bicycloheptadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutyl ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>Organophosphorus Compounds (OPC) (ug/g)</b>												
DACP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DACP (Nemagon)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>Volatiles Halocarbons (VHO) (ug/g)</b>												
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

< Higher detection limit due to dilution or soil matrix masking effects.  
 > Quantitative concentration was not achieved due to dilution constraints.  
 \* As calibrated to an isobutylene standard.  
 \*\* Detected in associated method blank.

BDL Below detection limit.  
 BKL No reading above ambient background.  
 NRQ Analysis not requested.  
 NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 4 of 12)

Boring Number	Depth (ft)	Geologic Material	3436	3437	3438	3438	3439	3439	3440	3441	3441	3442	3442
			4-5	0-1	0-1	0-1	0-1	0-1	4-5	4-5	4-5	0-1	4-5
			Silty Sand	Silty Sand	Silty Sand	Silty Sand	Saturated Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
<b>VOLATILE AROMATICS (VAD)</b>													
Benzene			BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Toluene			BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Ethylbenzene			BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
m-Xylene			BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
O- and/or p-Xylene			BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
<b>IMPA</b>													
Fluoroacetic Acid			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylphosphonic Acid			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
<b>TDGCL</b>													
<b>Volatiles Organics (VO) by GC/MS</b>													
Dicyclopentadiene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Ethylbenzene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylene Chloride			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Tetrachloroethene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Toluene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Trichloroethene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
m-Xylene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DMS			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Benzene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
O- and/or p-Xylene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Carbon Tetrachloride			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Chloroform			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Bicycloheptadiene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Nemagon)			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
<b>Semivolatile Organics (SVO) by GC/MS</b>													
Aldrin			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPHS			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPHSO2			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Nemagon)			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dicyclopentadiene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dieldrin			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Endrin			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Hexachlorocyclopentadiene			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Isodrin			NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Mercury			NRQ	0.36	BDL	NRQ	BDL	NRQ	NRQ	0.17	NRQ	BDL	NRQ

< Higher detection limit due to dilution or soil matrix masking effects.  
 > Quantitative concentration was not achieved due to dilution constraints.  
 \* As calibrated to an isobutylene standard.  
 \*\* Detected in associated method blank.

BDL Below detection limit.  
 NRQ No reading above ambient background.  
 NA Analysis not requested.  
 NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 5 of 12)

Boring Number	3442	3443	3443	3443	3443	3444	3444	3444	3445	3445	3445	3445	3446
Depth (ft)	5-6	0-1	4-5	7-8	0-1	3-4	4-5	9-10	0-1	4-5	5-6	6-7	0-1
Geologic Material	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Non-Silty Sand	Silty Sand	Silty Sand	Silty Sand	Non-Silty Soil	Non-Silty Soil	Silty Sand	Silty Sand
<b>AIR MONITORING</b>													
PID*	BKD	BKD	BKD	2.4	BKD	BKD	BKD	38	BKD	BKD	BKD	35	38
<b>SOIL CHEMISTRY</b>													
<b>Organochlorine Pesticides (OCP) (ug/g)</b>													
Hexachlorocyclopentadiene	BDL	<0.52	BDL	BDL	>4.0	14	>2.0	1200	0.49	12	>8000	>1600	3300
Aldrin	BDL	1.5	BDL	BDL	<0.18	<1.8	<0.018	<9.1	<0.18	11	<36	<73	230
Isodrin	BDL	<0.22	BDL	BDL	<0.11	<1.1	<0.011	<5.6	<0.11	<0.22	<22	<44	<22
DDT, pp'	BDL	<0.20	BDL	BDL	<0.10	<1.0	<0.010	<5.0	<0.10	<0.20	<20	<40	<20
Dieldrin	0.070	<0.48	BDL	0.012	4.5	4.6	0.072	<6.1	0.29	<0.61	<24	97	35
Endrin	BDL	1.0	BDL	BDL	0.40	<1.0	<0.010	25	<0.10	1.1	<20	<40	190
DDT, pp'	BDL	<0.47	BDL	BDL	<0.23	<2.3	<0.023	<12	<0.23	<0.47	<47	<94	<47
Chlordane	BDL	<22	BDL	BDL	<11	<110	<1.1	<550	<11	<22	<2200	<4400	<2200
<b>Organosulfur Compounds (OSC) (ug/g)</b>													
DMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.1	BDL	BDL	BDL	BDL	BDL
1,4 Dithiane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzothiazole	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPMSO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DIMP (ug/g)</b>													
DIMP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DMP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DCPD (ug/g)</b>													
Bicycloheptadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutyl ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DBC (ug/g)</b>													
DBC (Nemagon)	0.016	BDL	BDL	0.26	<0.10	<0.10	<0.025	<50	<0.025	<2.5	<2.5	<50	<2.5
<b>Volatile Halocarbons (VHO) (ug/g)</b>													
Methylene Chloride	0.18**	NMQ	BDL	0.36	NMQ	BDL	BDL	BDL	NMQ	BDL	0.31	0.46	NMQ
1,1-Dichloroethene	BDL	NMQ	BDL	BDL	NMQ	BDL	BDL	BDL	NMQ	BDL	BDL	0.21	NMQ
Chloroform	BDL	NMQ	BDL	0.16	NMQ	BDL	BDL	>1.0	NMQ	BDL	>1.0	>1.0	NMQ
1,2-Dichloroethane	BDL	NMQ	BDL	BDL	NMQ	BDL	BDL	>1.0	NMQ	BDL	BDL	0.45	NMQ
Carbon Tetrachloride	BDL	NMQ	BDL	BDL	NMQ	BDL	BDL	>1.0	NMQ	BDL	BDL	>1.0	NMQ
Trichloroethene	BDL	NMQ	BDL	BDL	NMQ	BDL	BDL	BDL	NMQ	BDL	BDL	>1.0	NMQ
1,1,2-Trichloroethane	BDL	NMQ	BDL	BDL	NMQ	BDL	BDL	BDL	NMQ	BDL	BDL	0.2	NMQ
Tetrachloroethene	BDL	NMQ	>1.0	0.25	NMQ	0.29	BDL	>1.0	NMQ	0.83	>1.0	>1.0	>1.0
Chlorobenzene	BDL	NMQ	BDL	BDL	NMQ	BDL	BDL	>1.0	NMQ	BDL	BDL	BDL	NMQ

&lt; Higher detection limit due to dilution or soil matrix masking effects.

&gt; Quantitative concentration was not achieved due to dilution constraints.

\* As calibrated to an isobutylene standard.

\*\* Detected in associated method blank.

BDL Below detection limit.

BKD No reading above ambient background.

NMQ Analysis not requested.

NA Not analyzed.



Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase 11 Soil Samples (page 6 of 12)

Boring Number	3442	3443	3443	3443	3444	3444	3444	3445	3445	3445	3445	3446
Depth (ft)	5-6	0-1	4-5	7-8	0-1	3-4	4-5	0-1	4-5	5-6	6-7	9-10
Geologic Material	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Non-Silty Sand	Silty Sand	Silty Sand	Non-Silty Soil	Non-Silty Soil	Silty Sand	Silty Sand
<b>VOLATILE AROMATICS (VAO)</b>												
Benzene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	0.14	2.5	>4.6
Toluene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	0.26	4.5	>4.3
Ethylbenzene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	3.0	1.8
m-Xylene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	2.4	3.5
O- and/or P-Xylene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	3.1	4.7
<b>IMPA</b>												
Fluoroacetic Acid	NRQ	NA	NA	NA	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylphosphonic Acid	NRQ	BDL	2.9	6.1	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
<b>TDBCL</b>												
<b>Volatile Organics (VO) by GC/MS</b>												
Dichloropentadiene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	BDL	BDL
Ethylbenzene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	0.6**	0.8	0.6
Methylene Chloride	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	0.6**	100	20
Tetrachloroethene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	0.7	2	3
Toluene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	2	BDL
Trichloroethene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	1	2
m-Xylene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	BDL	20
DMS	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	0.4	4	20
Benzene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	2	3
O- and/or P-Xylene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	8	9
Carbon Tetrachloride	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	5	10	1
Chloroform	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	BDL	BDL
Bicycloheptadiene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	2	2
DBCP (Nemagon)	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	2	2
<b>Semivolatile Organics (SVO) by GC/MS</b>												
Aldrin	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	4	<30	<20	100
CPHS	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	<7	<6	<7
CPHS02	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	<8	<7	<8
DBCP (Nemagon)	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	<9	<6	<9
Dichloropentadiene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	<7	<7	<7
Dieldrin	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	9	<7	<6	10
Endrin	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	<20	<20	60
Hexachlorocyclopentadiene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	3	5000	40000	10000
Isodrin	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	<9	<8	<8
Mercury	NRQ	0.30	NRQ	NRQ	BDL	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	BDL

< Higher detection limit due to dilution or soil matrix masking effects.  
 > Quantitative concentration was not achieved due to dilution constraints.  
 \* As calibrated to an isobutylene standard.  
 \*\* Detected in associated method blank.

BDL Below detection limit.  
 BDL No reading above ambient background.  
 NRQ Analysis not requested.  
 NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase 11 Soil Samples (page 7 of 12)

Boring Number Depth (ft) Geologic Material	3446 5-6 Silty Sand	3446 7-8 Silty Sand	3447 0-1 Silty Sand	3447 4-5 Silty Silt	3447 9-10 Sandy Silt	3448 0-1 Silty Sand	3448 4-5 Silty Sand	3448 6-7 Silty Sand	3449 0-1 Silty Sand	3449 4-5 Silty Sand	3450 0-1 Silty Sand	3450 6-7 Silty Sand
<b>AIR MONITORING</b>												
PID#	90	40	BDL	2.5	5.9	BDL	0.2	BDL	BDL	BDL	BDL	BDL
<b>SOIL CHEMISTRY</b>												
Organochlorine Pesticides (OCP) (ug/g)												
Hexachlorocyclopentadiene	<26	<0.26	<0.26	<0.26	<0.26	0.010	BDL	0.006	0.004	BDL	BDL	BDL
Aldrin	75	>680	<0.18	<0.18	17	0.008	BDL	BDL	2.8	0.007	BDL	0.36
Isodrin	>370	>730	<0.11	<0.11	0.58	BDL	BDL	BDL	0.044	BDL	0.028	0.046
DDE, pp'	<0.10	<0.10	<0.10	<0.10	<0.10	0.004	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	210	45	1.7	<0.12	<0.12	0.49	0.003	0.033	4.3	0.004	1.5	<0.12
Endrin	>380	390	<1.0	1.9	<0.10	0.13	0.007	0.033	0.024	0.005	0.54	0.021
DDT, pp'	<0.23	<0.23	<0.23	<0.23	<0.23	0.008	BDL	BDL	BDL	BDL	0.023	BDL
Chlordane	<11	<11	<11	<11	<11	<11	BDL	BDL	BDL	BDL	<11	BDL
Organosulfur Compounds (OSC) (ug/g)												
DMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4 Dithiane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPHS	110	26	1.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.4
Benzothiazole	26	61	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPRSO	BDL	BDL	3.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIMP (ug/g)												
DIMP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DMP	BDL	BDL	BDL	BDL	0.67	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DCPD (ug/g)												
Bicycloheptadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutyl ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DBCP (Hexagon)												
DBCP	<5.0	<25	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Volatiles Halocarbons (VHO) (ug/g)												
Methylene Chloride	<0.75	<15	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	0.38
1,1-Dichloroethene	<0.60	<12	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	0.2
Chloroform	1.6	<10	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	BDL
1,2-Dichloroethane	<0.40	<8.0	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	BDL
Carbon Tetrachloride	<0.60	<12	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	0.11
Trichloroethene	<0.45	<9.0	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	BDL
1,1,2-Trichloroethane	<0.60	<12	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	BDL
Tetrachloroethene	1	17	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	BDL
Chlorobenzene	<0.90	<18	NRQ	BDL	BDL	NRQ	BDL	BDL	NRQ	BDL	NRQ	BDL

&lt; Higher detection limit due to dilution or soil matrix masking effects.

&gt; Quantitative concentration was not achieved due to dilution constraints.

\* As calibrated to an isobutylene standard.

\*\* Detected in associated method blank.

BDL Below detection limit.

NRQ No reading above ambient background.

NA Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 8 of 12)

Boring Number	3446	3446	3447	3447	3447	3448	3448	3449	3449	3450
Depth (ft):	5-6	7-8	0-1	4-5	9-10	0-1	4-5	0-1	4-5	0-1
Geologic Material	Silty Sand	Silty Sand	Silty Sand	Silty Silt	Sandy Silt	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
<b>VOLATILE AROMATICS (VAO)</b>										
Benzene	0.67	<8.1	NRQ	BDL	BDL	NRQ	BDL	NRQ	BDL	BDL
Toluene	<.48	<9.6	NRQ	BDL	BDL	NRQ	BDL	NRQ	BDL	0.19
Ethylbenzene	<.22	<4.3	NRQ	BDL	2.1	NRQ	BDL	NRQ	BDL	BDL
n-Xylene	<.27	<5.3	NRQ	BDL	1.1	NRQ	BDL	NRQ	BDL	0.18
O- and/or P-Xylene	<.43	<8.6	NRQ	BDL	2.4	NRQ	BDL	NRQ	BDL	0.16
<b>MPA</b>										
Fluoroacetic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylphosphonic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
<b>TDGCL</b>										
<b>Volatiles Organics (VO) by GC/MS</b>										
Dicyclopentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Ethylbenzene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylene Chloride	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Tetrachloroethene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Toluene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Trichloroethene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
n-Xylene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DMS	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Benzene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
O- and/or P-Xylene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Carbon Tetrachloride	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Chloroform	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Bicycloheptadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Newagon)	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
<b>Semivolatile Organics (SVO) by GC/MS</b>										
Aldrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMS	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMSO2	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Newagon)	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dicyclopentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dieldrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Endrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Hexachlorocyclopentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Isodrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Mercury	NRQ	NRQ	BDL	NRQ	NRQ	0.29	NRQ	BDL	NRQ	0.12

&lt; Higher detection limit due to dilution or soil matrix masking effects.

&gt; Quantitative concentration was not achieved due to dilution constraints.

\* As calibrated to an isobutylene standard.

\*\* Detected in associated method blank.

BDL Below detection limit.

NRQ No reading above ambient background.

NA Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase 11 Soil Samples (page 9 of 12)

Boring Number Depth (ft) Geologic Material	3450 7-8 Saturated Silty Sand	3451 0-1 Clayey Fine Sand	3451 3-4 Clayey Fine Sand	3451 8-9 Clayey Sand	3452 0-1 Sandy Silt	3452 4-5 Silty Sand	3453 0-1 Silty Sand	3453 5-6 Sandy Silt	3454 0-1 Sandy Silt	3454 4-5 Silty Sand	3454 9-10 Silty Sand
<b>AIR MONITORING</b>											
<b>PID*</b>	BKD	BKD	BKD	BKD	0.2	BKD	0.2	BKD	BKD	BKD	BKD
<b>SOIL CHEMISTRY</b>											
<b>Organochlorine Pesticides (OCP) (ug/g)</b>											
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin	0.038	0.004	0.046	0.015	0.004	BDL	0.003	BDL	0.020	BDL	BDL
Isodrin	0.007	BDL	0.004	0.016	BDL	BDL	BDL	BDL	<0.18	BDL	BDL
DDE, PP'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<0.11	0.007	0.004
Dieldrin	0.031	0.55	0.045	0.011	<0.12	BDL	<0.12	<0.12	3.1	0.044	0.021
Endrin	0.009	0.021	0.012	0.012	0.006	BDL	0.006	BDL	0.56	<0.10	BDL
DDT, PP'	BDL	BDL	BDL	BDL	<11	BDL	BDL	BDL	<0.23	BDL	BDL
Chlordane	BDL	<11	<11	BDL	<11	BDL	BDL	BDL	<11	BDL	BDL
<b>Organosulfur Compounds (OSC) (ug/g)</b>											
DMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dithiane	BDL	BDL	BDL	<5.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPMS	BDL	BDL	BDL	<11	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzothiazole	BDL	BDL	BDL	<11	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPMSO	BDL	BDL	BDL	<23	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DMP (ug/g)</b>											
DMP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DMP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DCPB (ug/g)</b>											
Bicycloheptadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutyl ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>DBCP (ug/g)</b>											
DBCP (Nemagon)	0.023	BDL	BDL	0.014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>Volatile Halocarbons (VHO) (ug/g)</b>											
Methylene Chloride	0.26	NRQ	BDL	BDL	NRQ	BDL	BDL	0.63	NRQ	BDL	BDL
1,1-Dichloroethene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	BDL
Chloroform	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	BDL
1,2-Dichloroethane	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	BDL
Carbon Tetrachloride	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	BDL
Trichloroethene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	BDL
1,1,2-Trichloroethane	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	BDL
Tetrachloroethene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	BDL
Chlorobenzene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	BDL

&lt; Higher detection limit due to dilution or soil matrix masking effects.

&gt; Quantitative concentration was not achieved due to dilution constraints.

\* As calibrated to an isobutylene standard.

\*\* Detected in associated method blank.

BDL Below detection limit.

BKD No reading above ambient background.

NRQ Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 10 of 12)

Boring Number	3450	3451	3451	3451	3451	3452	3452	3453	3453	3454	3454	3454
Depth (ft)	7-8	0-1	3-4	3-4	8-9	0-1	4-5	0-1	5-6	0-1	4-5	9-10
Geologic Material	Saturated Silty Sand	Clayey Fine Sand	Clayey Fine Sand	Clayey Fine Sand	Clayey Sand	Sandy Silt	Silty Sand	Silty Sand	Silty Sand	Sandy Silt	Silty Sand	Silty Sand
<b>VOLATILE AROMATICS (VAO)</b>												
Benzene	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL
Toluene	BDL	NRQ	BDL	BDL	2.0	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL
Ethylbenzene	BDL	NRQ	BDL	BDL	0.77	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL
M-Xylene	BDL	NRQ	BDL	BDL	3.3	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL
O- and/or P-Xylene	BDL	NRQ	BDL	BDL	8.7	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL
<b>MPA</b>												
Fluoroacetic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	19	BDL
Methylphosphonic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	BDL	BDL
<b>TDGCL</b>												
<b>Volatiles Organics (VO) by GC/MS</b>												
Dichlorobenzene	NRQ	NRQ	NRQ	NRQ	3	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Ethylbenzene	NRQ	NRQ	NRQ	NRQ	0.5	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylene Chloride	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Tetrachloroethene	NRQ	NRQ	NRQ	NRQ	1	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Toluene	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Trichloroethene	NRQ	NRQ	NRQ	NRQ	2	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
M-Xylene	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DMDS	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Benzene	NRQ	NRQ	NRQ	NRQ	8	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
O- and/or P-Xylene	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Carbon Tetrachloride	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Chloroform	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Bicycloheptadiene	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Nemagon)	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
<b>Semivolatiles Organics (SVO) by GC/MS</b>												
Aldrin	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMS	NRQ	NRQ	NRQ	NRQ	20	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMS2	NRQ	NRQ	NRQ	NRQ	0.8	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Nemagon)	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dichloropentadiene	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dieldrin	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Endrin	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Hexachlorocyclopentadiene	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Isodrin	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Mercury	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	0.080	NRQ	NRQ

BDL Below detection limit.  
 NRQ No reading above ambient background.  
 MA Analysis not requested.  
 NA Not analyzed.

< Higher detection limit due to dilution or soil matrix masking effects.  
 > Quantitative concentration was not achieved due to dilution constraints.  
 \* As calibrated to an isobutylene standard.  
 \*\* Detected in associated method blank.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 11 of 12)

Boring Number Depth (ft) Geologic Material	3456 0-1 Silty Sand	3456 4-5 Silty Sand	3456 8-9 Silty Sand	3456 16-17 Silty Sand	3457 0-1 Sandy Silt	3457 8-9 Clayey Silt	3457 9-10 Clayey Silt	3457 13-14 Clayey Silt	3458 0-1 Silty Sand	3458 5-6 Silty Sand	3458 7-8 Silty Sand	3458 13-14 Silty Sand
<b>AIR MONITORING</b>												
PID*	BKD	BKD	BKD	BKD	BKD	10	12	9	BKD	4	2	2
<b>SOIL CHEMISTRY</b>												
<b>Organochlorine Pesticides (OCP) (ug/g)</b>												
Hexachlorocyclopentadiene	0.006	BDL	BDL	<0.26	BDL	0.39	<0.26	<0.26	BDL	0.019	<2.6	BDL
Aldrin	<0.18	<0.18	0.043	36	0.008	>400	430	82	<0.18	<0.18	33	<0.18
Isodrin	0.034	0.003	0.032	57	0.011	>410	>410	390	0.018	0.32	3.2	0.021
DDT, pp'	BDL	BDL	BDL	<0.10	BDL	<0.10	<0.10	<0.10	BDL	BDL	<1.0	BDL
Dieldrin	2.3	0.57	1.8	70	0.044	360	370	55	1.1	1.5	9.2	<0.12
Endrin	1.2	1.6	1.8	120	0.018	>400	>400	160	0.19	0.72	7.3	0.53
DDT, pp'	<0.23	BDL	BDL	<0.23	BDL	<0.23	<0.23	<0.23	BDL	BDL	<2.3	BDL
Chlordane	<11	BDL	BDL	<11	BDL	<11	<11	<11	BDL	BDL	<110	BDL
<b>Organosulfur Compounds (OSC) (ug/g)</b>												
DMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	110	BDL
1,4 Dithiane	BDL	BDL	BDL	BDL	BDL	7.6	>12	3.3	BDL	BDL	<57	BDL
CPMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<110	BDL
Benzothiazole	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<110	BDL
CPMSO	BDL	BDL	BDL	BDL	BDL	4.3	3.8	BDL	BDL	BDL	<230	BDL
<b>DHP (ug/g)</b>												
DHP	BDL	BDL	BDL	BDL	BDL	25	37	14	BDL	BDL	BDL	NA
DMPP	0.19	BDL	BDL	BDL	BDL	<1.3	<1.3	<1.3	BDL	BDL	BDL	NA
<b>DCPD (ug/g)</b>												
Bicycloheptadiene	BDL	BDL	BDL	BDL	BDL	<51	<51	BDL	BDL	BDL	10	BDL
Methylisobutyl ketone	BDL	BDL	BDL	BDL	BDL	<52	<52	BDL	BDL	BDL	21	BDL
Dicyclopentadiene	BDL	BDL	BDL	8.6	BDL	100	140	38	BDL	BDL	BDL	BDL
<b>DBCP (ug/g)</b>												
DBCP (Nemagon)	BDL	<0.10	0.39	1.2	BDL	0.83	23	<0.50	<0.50	<0.50	700	15.5
<b>Volatile Halocarbons (VHO) (ug/g)</b>												
Methylene Chloride	NRQ	BDL	BDL	0.57	NRQ	<3.8	<3.78	<1.5	NRQ	<7.5	<7.5	<0.30
1,1-Dichloroethene	NRQ	BDL	BDL	BDL	NRQ	<3.0	<3.0	<1.2	NRQ	<6.0	<6.0	<0.24
Chloroform	NRQ	BDL	0.30	0.20	NRQ	7.2	4.7	<1.0	NRQ	<5.0	<5.0	<0.20
1,2-Dichloroethane	NRQ	BDL	BDL	BDL	NRQ	<2.0	<2.0	<0.80	NRQ	<4.0	<4.0	<0.16
Carbon Tetrachloride	NRQ	BDL	BDL	BDL	NRQ	<3.0	<3.0	<1.2	NRQ	<6.0	<6.0	<0.24
Trichloroethene	NRQ	BDL	BDL	BDL	NRQ	<2.3	<2.3	<0.90	NRQ	<4.5	<4.5	<0.18
1,1,2-Trichloroethane	NRQ	BDL	BDL	BDL	NRQ	<3.0	<3.0	<1.2	NRQ	<6.0	<6.0	<0.24
Tetrachloroethene	NRQ	BDL	BDL	0.20	NRQ	3.9	<3.0	<1.2	NRQ	<6.0	<6.0	<0.24
Chlorobenzene	NRQ	BDL	BDL	BDL	NRQ	<4.5	<4.5	<1.8	NRQ	<9.0	<9.0	<0.36

&lt; Higher detection limit due to dilution or soil matrix masking effects.

&gt; Quantitative concentration was not achieved due to dilution constraints.

\* As calibrated to an isobutylene standard.

\*\* Detected in associated method blank.

BDL Below detection limit.

BKD No reading above ambient background.

NRQ Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 12 of 12)

Boring Number	3456	3456	3456	3456	3457	3457	3457	3457	3458	3458	3458
Depth (ft)	0-1	4-5	8-9	16-17	0-1	8-9	9-10	13-14	0-1	5-6	7-8
Geologic Material	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Sandy Silt	Clayey Silt	Clayey Silt	Clayey Silt	Silty Sand	Silty Sand	Silty Sand
<b>VOLATILE AROMATICS (VIAO)</b>											
Benzene	NRQ	BDL	BDL	2.5	NRQ	26	<2.0	<.80	NRQ	<4.1	<.16
Toluene	NRQ	BDL	0.72	8.2	NRQ	380	67	16	NRQ	<4.8	250
Ethylbenzene	NRQ	BDL	BDL	BDL	NRQ	<1.1	9.9	<.43	NRQ	<2.2	<.09
m-Xylene	NRQ	BDL	BDL	BDL	NRQ	<1.3	12	<.53	NRQ	<2.7	<.11
O- and/or p-Xylene	NRQ	BDL	BDL	BDL	NRQ	<2.2	15	<.86	NRQ	<4.3	<.17
<b>MPA</b>											
Fluoroacetic Acid	NRQ	NRQ	NRQ	NRQ	12	2.9	BDL	7.3	NRQ	NRQ	NRQ
Methylphosphonic Acid	NRQ	NRQ	NRQ	NRQ	BDL	BDL	BDL	BDL	NRQ	NRQ	NRQ
<b>TDGCL</b>											
<b>Volatile Organics (VO) by GC/MS</b>											
Dicyclopentadiene	NRQ	2	2	NRQ	NRQ	>300	>300	NRQ	NRQ	BDL	10
Ethylbenzene	NRQ	BDL	BDL	NRQ	NRQ	0.8	10	NRQ	NRQ	BDL	NRQ
Methylchloroethene	NRQ	BDL	BDL	NRQ	NRQ	0.7**	0.8**	NRQ	NRQ	BDL	NRQ
Toluene	NRQ	BDL	0.7	NRQ	NRQ	>300	40	NRQ	NRQ	BDL	NRQ
Trichloroethene	NRQ	BDL	BDL	NRQ	NRQ	0.8	3	NRQ	NRQ	BDL	NRQ
m-Xylene	NRQ	BDL	BDL	NRQ	NRQ	2	10	NRQ	NRQ	BDL	NRQ
DMS	NRQ	BDL	BDL	NRQ	NRQ	0.7	BDL	NRQ	NRQ	BDL	NRQ
Benzene	NRQ	BDL	BDL	NRQ	NRQ	30	BDL	NRQ	NRQ	BDL	NRQ
O- and/or p-Xylene	NRQ	BDL	BDL	NRQ	NRQ	BDL	10	NRQ	NRQ	BDL	NRQ
Carbon Tetrachloride	NRQ	BDL	BDL	NRQ	NRQ	BDL	BDL	NRQ	NRQ	BDL	NRQ
Chloroform	NRQ	BDL	BDL	NRQ	NRQ	8	6	NRQ	NRQ	BDL	NRQ
Bicycloheptadiene	NRQ	BDL	BDL	NRQ	NRQ	60	0.9	NRQ	NRQ	BDL	NRQ
DBCP (Nemagon)	NRQ	BDL	BDL	NRQ	NRQ	2	10	NRQ	NRQ	BDL	NRQ
<b>Semi-volatile Organics (SWO) by GC/MS</b>											
Aldrin	NRQ	BDL	BDL	NRQ	NRQ	700	300	NRQ	NRQ	BDL	NRQ
CPHS	NRQ	BDL	BDL	NRQ	NRQ	<3	<3	NRQ	NRQ	BDL	NRQ
CPHSO2	NRQ	BDL	BDL	NRQ	NRQ	<3	<3	NRQ	NRQ	BDL	NRQ
DBCP (Nemagon)	NRQ	BDL	BDL	NRQ	NRQ	<3	4	NRQ	NRQ	BDL	NRQ
Dicyclopentadiene	NRQ	BDL	BDL	NRQ	NRQ	100	400	NRQ	NRQ	BDL	NRQ
Dieldrin	NRQ	BDL	1	NRQ	NRQ	70	100	NRQ	NRQ	BDL	NRQ
Endrin	NRQ	0.8	1	NRQ	NRQ	200	400	NRQ	NRQ	BDL	NRQ
Hexachlorocyclopentadiene	NRQ	BDL	BDL	NRQ	NRQ	<10	<10	NRQ	NRQ	BDL	NRQ
Isodrin	NRQ	BDL	BDL	NRQ	NRQ	900	1000	NRQ	NRQ	BDL	NRQ
Mercury	BDL	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	BDL	NRQ	NRQ

< Higher detection limit due to dilution or soil matrix masking effects.  
 > Quantitative concentration was not achieved due to dilution constraints.  
 \*\* As calibrated to an isobutylene standard.  
 NA Detected in associated method blank.

BDL Below detection limit.

NRQ No reading above ambient background.

NRQ Analysis not requested.

NA Not analyzed.

Source: ESE, 1988.

0-1 Aldrin  
Isodrin  
Dieldrin  
Endrin  
FC2A  
8-9 CL6CP  
Aldrin  
Isodrin  
Dieldrin  
Endrin  
14DITH  
CPMSO  
DIMP  
DCPD  
DBCP  
CHCL3  
TCLEE  
C6H6  
MEC6H5  
FC2A  
ETC6H5  
CH2CL2  
TCLEE  
TRCLE  
13 DMB  
DMDS  
BCHPD

9-10 Aldrin  
Isodrin  
Dieldrin  
Endrin  
14DITH  
CPMSO  
DIMP  
DCPD  
DBCP  
CHCL3  
MEC6H5  
ETC6H5  
13DMB  
XYLEN  
CH2CL2  
TCLEE  
TRCLE  
BCHPD

13-14 Aldrin  
Isodrin  
Dieldrin  
Endrin  
14DITH  
DIMP  
DCPD  
MEC6H5  
FC2A

0-1 Isodrin 0.005  
PPDDE 0.004  
Dieldrin 1.2  
PPDDT 0.009  
4-5 Dieldrin 0.067  
5-6 Dieldrin 0.070  
DBCP 0.016  
CH2CL2 0.18

0-1 Aldrin 1.5  
Endrin 1.0  
Hg 0.30  
4-5 TCLEE > 1.0  
MPA 2.9  
7-8 Dieldrin 0.012  
DBCP 0.26  
CH2CL2 0.36  
CHCL3 0.16  
TCLEE 0.25  
MPA 6.1

0-1 CL6CP > 4.0  
Dieldrin 4.5  
Endrin 0.40  
3-4 CL6CP 14  
Dieldrin 4.6  
TCLEE 0.29  
4-5 CL6CP > 2.0  
Dieldrin 0.072  
9-10 CL6CP 1200  
Endrin 25  
DMDS 9.1  
MIBK 9.0  
CHCL3 > 1.0  
CCL4 > 1.0  
TCLEE > 1.0  
CLC6H5 > 1.0  
C6H6 2.8  
MEC6H5 3.8  
ETC6H5 1.0  
13DMB 1.2  
XYLEN 1.1

0-1 CL6CP 0.011  
Aldrin 0.34  
Isodrin 0.019  
PPDDE 0.014  
Dieldrin 4.4  
Endrin 0.36  
PPDDT 0.033  
Hg 0.17  
4-5 Dieldrin 0.11  
Endrin 0.26

0-1 CL6CP 0.020  
PPDDE 0.003  
Dieldrin 3.1  
Endrin 0.56  
Hg 0.080  
4-5 Isodrin 0.007  
Dieldrin 0.044  
FC2A 19  
9-10 Isodrin 0.004  
Dieldrin 0.021  
CHCL3 0.17

0-1 PPDDE 0.030  
PPDDT 0.003  
Dieldrin 6.1  
Endrin 2.0  
4-5 Dieldrin 0.007  
Endrin 0.002

0-1 CL6CP 0.006  
Isodrin 0.034  
Dieldrin 2.3  
Endrin 1.2  
DMMP 0.19  
4-5 Isodrin 0.003  
Dieldrin 0.57  
Endrin 1.6  
DCPD 2

8-9 Aldrin 0.043  
Isodrin 0.032  
Dieldrin 1.8  
Endrin 1.8  
DBCP 0.39  
CHCL3 0.30  
MEC6H5 0.72  
DCPD 2

16-17 Aldrin 36  
Isodrin 57  
Dieldrin 70  
Endrin 120  
DCPD 8.6  
DBCP 1.2  
CH2CL2 0.57  
CHCL3 0.20  
TCLEE 0.20  
C6H6 2.5  
MEC6H5 8.2

0-1 Pb 38  
Cd 1.0  
As 5.3  
Hg 0.45  
Dieldrin 3  
4-5 BIL

0-1 CL6CP 0.004  
Aldrin 0.85  
Isodrin 0.042  
PPDDE 0.004  
Dieldrin 15  
Endrin 0.38  
PPDDT 0.030  
4-5 BIL

0-1 Aldrin 0.003  
Endrin 0.006  
5-6 CH2CL2 0.63

0-1 Hg 0.07  
Aldrin 3  
Dieldrin 20  
Endrin 9  
Isodrin 20  
DBCP 0.012  
4-5 Dieldrin 0.9  
Endrin 10  
DBCP 0.33

0-1 Hg 0.090  
Cd 3.5  
4-5 Cd 1.0  
9-10 Aldrin 100  
Dieldrin 7  
Endrin 3  
Isodrin 20  
DCPD 20  
DBCP 1.2  
Toluene 8  
Benzene 0.9  
CHCL3 2  
BCHD 1  
CH2CL2 1  
TCLEE 0.6  
Cd 1.3  
Pb 26

3092

3443

3430

3441

3442

3444

3173

3454

3456

3175

3440

3453

3177

3176

3457

3439



0-1 Aldrin 0.008  
Isodrin 0.011  
Dieldrin 0.044  
Endrin 0.018  
FC2A 12

8-9 CLsCP 0.39  
Aldrin 700  
Isodrin 900  
Dieldrin 360  
Endrin 100  
14DITH 7.6  
CPMSO 4.3  
DIMP 25  
DCPD 100  
DBCP 0.83  
CHCL3 7.2  
TCLEE 3.9  
CaH6 26  
MEC6H5 380  
FC2A 2.9  
ETC6H5 0.8  
CH2CL2 0.7  
TCLEE 4  
TRCLE 0.8  
13DMB 2  
DMDS 0.7  
BCHPD 60

9-10 Aldrin 430  
Isodrin 1000  
Dieldrin 370  
Endrin 400  
14DITH >12  
CPMSO 3.8  
DIMP 37  
DCPD 140  
DBCP 23  
CHCL3 4.7  
MEC6H5 67  
ETC6H5 9.9  
13DMB 12  
XYLEN 15  
CH2CL2 0.8  
TCLEE 2  
TRCLE 3  
BCHPD 0.9

13-14 Aldrin 82  
Isodrin 390  
Dieldrin 55  
Endrin 160  
14DITH >3.3  
DIMP 14  
DCPD 38  
MEC6H5 16  
FC2A 7.3

0-1 CLsCP 0.49  
Dieldrin 0.29  
4-5 CLsCP 12  
Aldrin 11  
Endrin 1.1  
CHCL3 0.22  
TCLEE 0.83

5-6 CLsCP 5000  
CH2CL2 0.37  
CHCL3 5  
TCLEE 6  
CaH6 0.14  
MEC6H5 0.26

6-7 CLsCP 40000  
Dieldrin 97  
CH2CL2 0.46  
HDCE 0.21  
CHCL3 10  
12DCLE 0.45  
CCL4 8  
TRCLE 2  
112TCE 0.20  
TCLEE 100  
CaH6 2.5  
MEC6H5 4.5  
ETC6H5 3.0  
13DMB 2.4  
XYLEN 3.1  
DBCP 2

9-10 CLsCP 3300  
Aldrin 230  
Dieldrin 35  
Endrin 190  
DMDS 17  
MIBK 14  
CHCL3 1  
CCL4 9  
TCLEE 2  
CaH6 20  
MEC6H5 3  
ETC6H5 7.8  
13DMB 3.5  
XYLEN 4.7  
CH2CL2 0.6  
DBCP 2

0-1 CLsCP 1.0  
Aldrin 0.32  
Dieldrin 0.53

5-6 Aldrin 75  
Isodrin >370  
Dieldrin 210  
Endrin >380  
CPMS 110  
BTZ 260  
CHCL3 1.6  
TCLEE 4.1  
CaH6 0.67

7-8 Aldrin >580  
Isodrin >730  
Dieldrin 45  
Endrin 390  
CPMS 26  
BTZ 61  
TCLEE 17

0-1 Aldrin 0.17  
CLDAN >0.44  
Dieldrin 0.73  
Endrin 0.12  
Isodrin 0.016  
CLsCP 0.006  
4-5 Aldrin 0.011  
Dieldrin 0.064  
Endrin 0.013

0-1 Aldrin 8.1  
PPDDE 1.9  
Dieldrin 81  
Endrin 19  
Isodrin 38  
DBCP 0.009  
Hg 0.43

0-1 Aldrin 0.73  
PPDDT 0.27  
Dieldrin 9.5  
Endrin 0.73  
CLsCP 1.1  
Hg 0.088

0-1 CLsCP 0.010  
Aldrin 0.008  
PPDDE 0.004  
Dieldrin 0.49  
Endrin 0.13  
PPDDT 0.008  
Hg 0.29  
4-5 Dieldrin 2.003

0-1 Isodrin 0.018  
Dieldrin 1.1  
Endrin 0.19  
CLsCP 0.19  
Isodrin 0.32  
Dieldrin 1.5  
Endrin 0.72

7-8 Aldrin 33  
Isodrin 32  
Dieldrin 92  
Endrin 73  
DMDS 110  
BCHPD 10  
MIBK 21  
DBCP 700  
MEC6H5 248  
TCLEE 1  
13DMB 1  
Benzene 2  
XYLEN 2  
CHCL3 1

13-14 Isodrin 0.021  
Endrin 0.53  
DBCP 16  
MEC6H5 5.0

0-1 Dieldrin 1.7  
CPMS 1.7  
CPMSO 3.8  
4-5 Endrin 1.9

9-10 Aldrin 17  
Isodrin 0.58  
DMMP 0.67  
DBCP 1.2  
TRCLE 0.29  
ETC6H5 2.1  
13DMB 1.1  
XYLEN 2.4

>4.0  
4.5  
0.40  
14  
4.6  
0.29  
>2.0  
0.072  
1200  
25  
9.1  
9.0  
>1.0  
>1.0  
>1.0  
>1.0  
2.8  
3.8  
1.0  
1.2  
1.1

0-1 PPDDDE 0.030  
PPDDT 0.003  
Dieldrin 6.1  
Endrin 2.0  
4-5 Dieldrin 0.007  
Endrin 0.002

0-1 Aldrin 3.6  
PPDDE 1.4  
Dieldrin 42  
Endrin 8.6  
Isodrin 14  
DBCP 0.014  
Hg 0.24  
4-5 Dieldrin 0.016

36-3

0-1 Cd 1.5  
As 5.1  
Hg 0.24  
Dieldrin 2  
4-5 Hg 0.060  
9-10 Aldrin 1  
Dieldrin 7  
Endrin 2  
Isodrin 0.6  
DBCP 0.009

Hg 0.090  
Cd 3.5  
Cd 1.0  
Aldrin 100  
Dieldrin 7  
Endrin 3  
Isodrin 20  
DCPD 20  
DBCP 1.2  
Toluene 6  
Benzene 0.8  
CHCL3 2  
BCHD 1  
CHCL3 1  
TCLEE 0.6  
Cd 1.3  
Pb 26

0.07  
3  
20  
9  
20  
0.013  
0.9  
10  
0.33

3093

0-1 NA  
4-5 NA

3432

3433

3430

3431

3445

3446

3174

0-1 Dieldrin 1.0  
Cd 1.0  
Hg 0.070

3457

3458

3178

3447

3434

3448

6

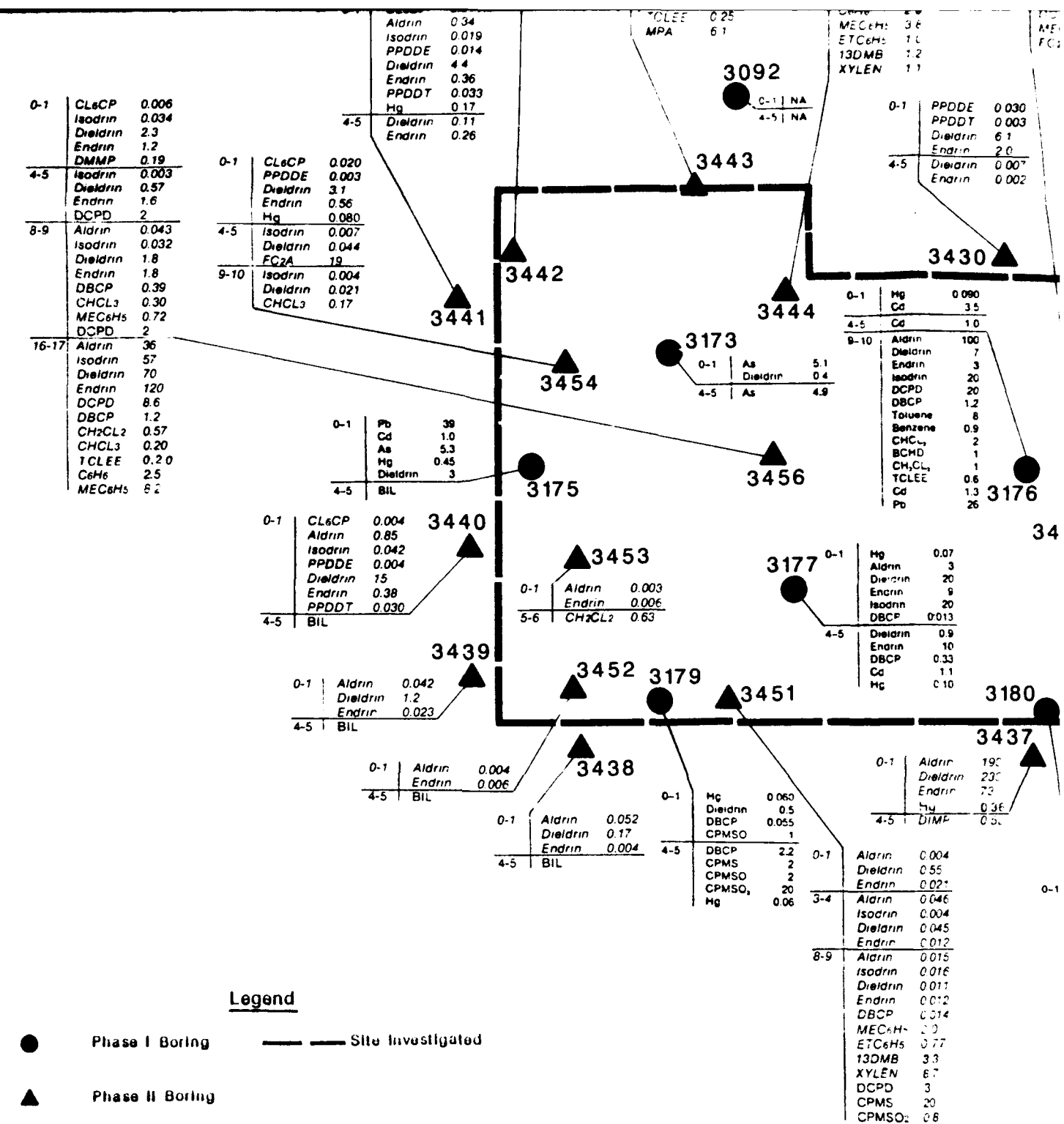


Figure 36-3-II-1

# SITE 36-3, PHASE I AND PHASE II INVESTIGATION CHEMICAL ANALYSIS RESULTS

XYLEN 1.1

TCLEE 17

0-1 PPDE 0.030  
PPDDT 0.003  
Dieldrin 6.1  
Endrin 2.0  
4-5 Dieldrin 0.007  
Endrin 0.002

0-1 Aldrin 3.6  
PPDE 1.4  
Dieldrin 42  
Endrin 8.6  
Isodrin 14  
DBCP 0.014  
Hg 0.24  
4-5 Dieldrin 0.076

0-1 Aldrin 3.17  
CLDAN > 0.44  
Dieldrin 0.73  
Endrin 0.12  
Isodrin 0.016  
CLsCP 0.006  
4-5 Aldrin 0.011  
Dieldrin 0.064  
Endrin 0.013

Isodrin 0.32  
Dieldrin 1.5  
Endrin 0.72  
7-8 Aldrin 33  
Isodrin 32  
Dieldrin 92  
Endrin 73  
DMDS 110  
BCHPD 10  
MIBK 21  
DBCP 700  
MEC6H5 248  
TCLEE 1  
13DMB 1  
Benzene 2  
XYLEN 2  
CHCL3 1  
13-14 Isodrin 0.021  
Endrin 0.53  
DBCP 16  
MEC6H5 5.0

0-1 Hg 0.090  
Cd 3.5  
4-5 Cd 1.0  
9-10 Aldrin 100  
Dieldrin 7  
Endrin 3  
Isodrin 20  
DCPD 20  
DBCP 1.2  
Toluene 8  
Benzene 0.9  
CHCL3 2  
BCHD 1  
CHCL3 1  
TCLEE 0.6  
Cd 1.3  
Pd 26

0-1 Hg 0.07  
Aldrin 3  
Dieldrin 20  
Endrin 9  
Isodrin 20  
DBCP 0.013  
4-5 Dieldrin 0.9  
Endrin 10  
DBCP 0.33  
Cd 1.1  
Hg 0.10

0-1 Cd 1.5  
As 5.1  
Hg 0.24  
Dieldrin 2  
4-5 Hg 0.060  
9-10 Aldrin 1  
Dieldrin 7  
Endrin 2  
Isodrin 0.6  
DBCP 0.009

0-1 Aldrin 8.1  
PPDE 1.9  
Dieldrin 81  
Endrin 19  
Isodrin 38  
DBCP 0.009  
Hg 0.43  
4-5 BIL

0-1 Dieldrin 1.7  
CPMS 1.7  
CPMSO 3.8  
4-5 Endrin 1.9  
9-10 Aldrin 17  
Isodrin 0.58  
DMMP 0.67  
DBCP 1.2  
TRCLE 0.29  
ETC6H5 2.1  
13DMB 1.1  
XYLEN 2.4

0-1 Aldrin 0.73  
PPDDT 0.27  
Dieldrin 9.5  
Endrin 0.73  
CLsCP 1.1  
Hg 0.088  
4-5 BIL

0-1 CLsCP 0.010  
Aldrin 0.008  
PPDE 0.004  
Dieldrin 0.49  
Endrin 0.13  
PPDDT 0.008  
Hg 0.29  
4-5 Dieldrin 0.003  
Endrin 0.007  
6-7 CLsCP 0.006  
Endrin 0.033

0-1 Aldrin 2.0  
Dieldrin 29  
Endrin 1.7  
CLsCP 0.71  
Hg 0.20  
4-5 Dieldrin 0.004

0-1 Aldrin 190  
Dieldrin 230  
Endrin 73  
Hg 0.36  
4-5 DIMP 0.50

0-1 CLsCP 0.004  
Aldrin 2.8  
Isodrin 0.044  
Dieldrin 4.3  
Endrin 0.024  
4-5 Aldrin 0.007  
Dieldrin 0.004  
Endrin 0.005  
8-9 Endrin 0.003

0-1 Aldrin 3.9  
PPDE 0.004  
PPDDT 0.017  
Dieldrin 9.7  
Endrin 1.8  
Isodrin 0.29  
Hg 0.11  
4-5 Aldrin 0.005  
Dieldrin 0.003

0-1 Aldrin 0.028  
Isodrin 0.017  
Dieldrin 1.5  
Endrin 0.54  
PPDDT 0.023  
Hg 0.12  
6-7 Aldrin 0.36  
Isodrin 0.046  
Endrin 0.021  
CPMS 2.4  
CH2CL2 0.38  
CHCL3 0.20  
TRCLE 0.11  
MEC6H5 0.19  
13DMB 0.18  
XYLEN 0.16  
7-8 Aldrin 0.038  
Isodrin 0.007  
Dieldrin 0.031  
Endrin 0.009  
DBCP 0.023  
CH2CL2 0.26

0-1 Hg 0.43  
Aldrin 7  
Dieldrin 9  
Endrin 3  
Isodrin 0.5  
Pd 68  
Cu 29  
Zn 65  
As 5.1

Aldrin 0.004  
Dieldrin 0.55  
Endrin 0.021  
Aldrin 0.046  
Isodrin 0.004  
Dieldrin 0.045  
Endrin 0.012  
Aldrin 0.015  
Isodrin 0.016  
Dieldrin 0.011  
Endrin 0.012  
DBCP 0.014  
MEC6H5 2.0  
ETC6H5 0.77  
13DMB 3.3  
XYLEN 6.7  
DCPD 3  
CPMS 20  
CPMSO 0.8

0 50 100 150 200

Scale in Feet

IS RESULTS

Prepared for:  
U.S. Army Program Manager's Office  
For Rocky Mountain Arsenal  
Aberdeen Proving Ground, Maryland

Borings 3431 (42 ppm); 3433 (81 ppm); and 3437 (230 ppm), and lower concentrations (<1.2 ppm) were detected in the 0- to 1-ft intervals of Borings 3438 and 3439, located southwest of Site 36-3.

Six of the 12 perimeter borings contained OCPs in the 4- to 5-ft interval at lower concentrations (<0.26 ppm). Three of these borings (Borings 3430, 3431, and 3432) are adjacent to the northern boundary of Site 36-3. Dieldrin was the most prevalent OCP in the 4- to 5-ft interval with concentrations ranging from 0.003 to 0.11 ppm. Two of these borings (Borings 3435 and 3436), located on the southeast corner of the site, contained dieldrin in the 4- to 5-ft interval at concentrations of 0.004 and 0.003 ppm, respectively. Boring 3436 (4 to 5 ft) also contained aldrin at a concentration of 0.005 ppm. Dieldrin was detected in Boring 3432 (4 to 5 ft) at 0.064 ppm, and Boring 3441, located on the northwest site boundary, contained dieldrin and endrin in the 4- to 5-ft interval at concentrations of 0.11 and 0.26 ppm, respectively.

Diisopropylmethyl phosphonate (DIMP) was detected in Boring 3437 (4 to 5 ft) at a concentration of 0.50 ppm, but dimethylmethyl phosphonate (DMMP) was not detected in any of the 24 samples analyzed. Nemagon (DBCP) was detected in two 0- to 1-ft samples at concentrations of 0.014 ppm (Boring 3431) and 0.009 ppm (Boring 3433). VAO and VHO compounds were not detected in any of the samples from the perimeter borings. Mercury was detected in 6 of the 12 samples obtained from the 0- to 1-ft interval. The range for mercury concentrations was 0.11 to 0.43 ppm.

#### Non-Trench Borings

Eight borings were drilled within Site 36-3 to confirm the lack of disposal trenches at specific locations within the site boundaries and to better define the lateral and vertical extent of contamination. These borings are summarized below:

Boring Number	Depth Drilled _____(ft)____
3442	7
3443	8
3447	10
3448	7
3449	11

3450	9
3451	10
3452	5

Boring 3450 encountered an impenetrable object and was relocated. No trench debris was encountered at the relocated boring (Figure 36-3-II-1). Boring 3451 encountered plastic sheeting and oily sludge at 8 ft. The other borings listed above did not encounter trench debris, but high PID readings were noted while drilling Boring 3446 (Table 36-3-II-1).

Aldrin, dieldrin, endrin, isodrin, dichlorodiphenyltrichloroethane (DDT), and dichlorodiphenylethane (DDE) were detected in samples from these borings, with aldrin, dieldrin, and endrin being most prevalent. The highest OCP concentrations were generally detected in the 0- to 1-ft samples and decreased in the deeper sample intervals, with the exception of Boring 3447, which contained higher OCP concentrations in deeper intervals. Six of the 12 aldrin detections from these 23 samples were in the 0- to 1-ft interval at concentrations ranging from 0.004 to 2.8 ppm. Seven of the 14 dieldrin detections were also in the 0- to 1-ft interval at concentrations ranging from 0.49 to 4.3 ppm. Six of the 15 endrin detections were in the 0- to 1-ft interval at concentrations ranging from 0.006 to 1.0 ppm. DDT (three samples) and DDE (two samples) were detected at low concentrations (<0.023). All DDT and DDE detections were in 0- to 1-ft samples.

Chloromethylphenyl sulfide (CPMS) was detected in three samples at concentrations ranging from 1.7 to 2.0 ppm; Chloromethylphenyl sulfone (CPMSO<sub>2</sub>), and chlorophenylmethyl sulfoxide (CPMSO) were detected at concentrations of 3.8 ppm and 0.8 ppm, respectively. The samples from Borings 3450 and 3451, located along the southern boundary of Site 36-3, contained CPMS and CPMSO<sub>2</sub> compounds and were collected near the water table. Boring 3447, located on the east side of the site, contained CPMS and CPMSO in the 0- to 1-ft sample.

DBCP was detected in four samples at concentrations ranging from 0.014 to 1.2 ppm; DCPD was detected at 3 ppm in Boring 3451 (8 to 9 ft). Boring 3447 (9 to 10 ft) had DMMP at a concentration of 0.67 ppm, and methylphosphonate, an ADP, was detected at 6.1 ppm in Boring 3443 (7 to 8 ft).

VHOs were detected in six samples, which were generally collected at the water table. Methylene chloride ( $\text{CH}_2\text{Cl}_2$ ) was detected in four samples at concentrations ranging from 0.18 to 0.38 ppm; two samples contained chloroform ( $\text{CHCl}_3$ ) at 0.16 and 0.20 ppm. Tetrachloroethene (TCLEE) and trichloroethene (TRCLE) were detected in two samples at low concentrations.

VAOs were detected in 3 of the 15 samples analyzed, generally in samples obtained at the water table. Ethylbenzene was detected twice at concentrations of 0.77 and 2.1 ppm, and two samples contained toluene at 0.19 and 2.0 ppm. Meta-xylene and xylene were detected in three samples at concentrations ranging from 0.18 to 3.3 ppm and 0.16 to 8.7 ppm, respectively.

#### Inner-Trench Borings

Five borings were drilled at locations within the disposal trench network identified from the geophysical program and the Phase I drilling data (ESE, 1987a, RIC#87203R01). These borings are summarized as follows:

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Number of Samples	Depth to Base of Disposal Trench (ft)
3444	10	10	4	4
3445	12	12	5	8
3446	9	8	3	8
3453	9	7	2	9
3454	10	10	3	No trench material observed
Total			17	

\* Table 36-3-II-1 describes observations and materials encountered for these borings, with the exception of Boring 3454.

OCPs were detected in samples from the inter-trench borings at detected concentrations as follows:

Compound	Number of Samples Containing OCP	Concentration Range (ppm)
CL <sub>6</sub> CP	11	0.020 to 40,000
Aldrin	7	0.003 to 700
Isodrin	6	0.004 to 1,000
Dieldrin	12	0.021 to 370
Endrin	10	0.006 to 400

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Elevated concentrations of aldrin, dieldrin, endrin, isodrin, and hexachlorocyclopentadiene (CL<sub>6</sub>CP) were detected in the deeper sample intervals of Borings 3444, 3445, and 3446. Concentrations of CL<sub>6</sub>CP as high as 40,000 ppm were detected in samples obtained within the disposal trench material. These borings are located in the northern area of Site 36-3 and may be located within the same east-west disposal trench. Boring 3453, located in the southwest area of Site 36-3, had fewer detections of OCPs at lower concentrations.

Three of the organosulphur compounds were detected in six of the samples. CPMs was detected in two (Boring 3446, 5 to 6 ft and 7 to 8 ft) samples at concentrations of 110 ppm and 26 ppm. Benzothiazole (BTZ) was detected in these two samples at concentrations of 260 ppm and 61 ppm, respectively. Dimethyldisulfide (DMDS) was detected in two samples, Boring 3444 (9 to 10 ft) at 9.1 ppm and Boring 3445 (9 to 10 ft) at 17 ppm.

There were no detections of DIMP or DMMP in the samples analyzed from the five inner-trench borings. DBCP was detected by GC analysis in the 6- to 7- and 9- to 10-ft samples of Boring 3445 at concentrations of 2 ppm. There were no detections of DCPD in any of the 17 samples, and mercury was not detected in any of the samples analyzed. FC2A was the only ADP detected in samples analyzed from the inner-trench borings. FC2A was detected in one sample, Boring 3454 (4 to 5 ft), at a concentration of 19 ppm.

Of the VHO compounds detected at Site 36-3, TCLEE, CH<sub>2</sub>Cl<sub>2</sub>, and carbon tetrachloride (CCL<sub>4</sub>) had the most detections. TCLEE was detected in four samples at concentrations ranging from 0.83 to 17 ppm. CH<sub>2</sub>Cl<sub>2</sub> had four detections at concentrations ranging from 0.31 to 0.63 ppm. Nine samples analyzed by GC/MS confirmed the detections noted above.

VAO compounds were detected in 15 samples at concentrations ranging from 0.67 to 2.8 ppm. Benzene and ethylbenzene were detected in three samples at concentrations ranging from 1.0 to 3.0 ppm. Meta-xylene and ortho-xylene were each detected in three samples at concentrations ranging from 1.2 to 3.5 ppm and 1.1 to 4.7 ppm, respectively. Toluene was detected in three samples at concentrations ranging from 0.26 to 4.5 ppm.

The analyte distributions and levels associated with the five inner-trench borings indicated high concentrations of OCPs in samples from disposal trench material that was wet to saturated. Borings 3444, 3445, and 3446 are approximately along the same east-west line (possibly the same disposal trench), and samples from these borings exhibited the highest OCP contamination. OSCs were detected at comparatively low concentrations, except for samples from Boring 3446 (5 to 6 ft and 7 to 8 ft). The southwestern boundary of Site 36-3 exhibited pesticide contamination at relatively low concentrations.

#### Deep Central Borings

Three deep borings were drilled along an east-west trend through the central portion of Site 36-3 (see Figure 36-3-II-1) to investigate vertical extent of contamination down to and below the water table. These borings are summarized as follows:

Boring Number	Depth Drilled -----(ft)-----	Depth to Water Table (ft)	No. of Samples
3456	17	9	4
3457	14	9	4
3458	14	8	<u>4</u>
Total			12

Five of the target OCP compounds (CL<sub>6</sub>CP, aldrin, isodrin, dieldrin, and endrin) were detected in samples from these borings as follows:

Compound	Number of Detections	Concentration Range (ppm)
CL <sub>6</sub> CP	3	0.006 to 0.19
Aldrin	7	0.043 to 700
Isodrin	12	0.003 to 1000
Dieldrin	12	0.044 to 370
Endrin	11	0.11 to 400

The highest concentrations of aldrin, isodrin, dieldrin, and endrin were detected in the 9- to 10-ft sample from Boring 3457. The base of the disposal trench encountered by this boring was approximately 9 ft, and the water table was also at 9 ft. The higher concentrations of OCPs were detected in samples collected at or below the water table.



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DMMP was detected at a concentration of 0.19 ppm in Boring 3456 (0 to 1 ft). The 8- to 9-, 9- to 10-, and 13- to 14-ft samples of Boring 3457 contained DIMP at concentrations ranging from 14 to 37 ppm.

CPMSO, DMDS, and 1,4, dithiane were detected in samples from Borings 3457 and 3458. CPMSO was detected at concentrations of 4.3 ppm and 3.8 ppm in the 8- to 9- and the 9- to 10-ft intervals of Boring 3457, respectively. DMDS was detected at a concentration of 110 ppm in Boring 3458 (7 to 8 ft). The 8- to 9-, 9- to 10-, and 13- to 14-ft samples of Boring 3457 contained 1,4 dithiane at concentrations from >3.3 ppm to 712 ppm.

DBCP was detected in five samples, which were collected at or below the water table, at concentrations ranging from 0.39 to 700 ppm. The highest concentration (700 ppm) was found in the 7- to 8-ft interval of Boring 3458. DCPD was detected in four samples at concentrations from 8.6 to 140 ppm. Bicycloheptadiene (BCHPD) and methylisobutyl ketone (MIBK) were identified in the 7- to 8-ft sample of Boring 3458 at concentrations of 10 and 21 ppm, respectively.

Chloroform, methylene chloride, and TCLEE were found in four, one, and two samples, respectively. For chloroform, the concentrations in the four samples ranged from 0.20 to 7.2 ppm. The 8- to 9- and 9- to 10-ft intervals of Boring 3457 contained concentrations of chloroform of 4.7 ppm and 7.2 ppm, respectively.  $\text{CH}_2\text{Cl}_2$  was found at a concentration of 0.57 ppm in Boring 3456 (16 to 17 ft), and two samples contained TCLEE at concentrations of 0.20 ppm and 3.9 ppm. GC/MS screening for VO confirmed detection of these VHO compounds.

Relatively high concentrations of benzene, ethylbenzene, m-xylene, o,p-xylene, and toluene were detected in 12 samples. The most prevalent VAO was toluene, which was detected in seven samples at concentrations ranging from 0.72 to 380 ppm. High concentrations of toluene were also detected in the 8- to 9-ft (380 ppm) and 9- to 10-ft (67 ppm) samples of Boring 3457.

Mercury was below its detection level in the 0- to 1-ft intervals of Borings 3456, 3457, and 3458. FC2A was detected in all three sample intervals submitted for analysis (0 to 1 ft, 9 to 10 ft, and 13 to 14 ft) from Boring 3457 at concentrations ranging from 2.9 to 12 ppm.

Phase I and Phase II results confirm OCP contamination at Site 36-3. Higher concentrations were detected in the disposal trenches and in samples taken at or below the water table, and lower concentrations of OCPs were in the perimeter areas along the east, south, and west boundaries. DIMP and OSCs are present, but at relatively lower concentrations. The northeastern portion of Site 36-3 had the highest frequency of OSCs. The perimeter borings along the northern boundary reflected higher concentrations of the target analytes compared to the southern and western perimeter borings.

The data reporting procedures as described in the Laboratory Quality Assurance Plan for RMA (ESE, 1985, Appendix B, RIC#85127R07) require that all analyses on a sample be completed within the sample's respective holding time and that analytical results be corrected for percent recovery and moisture content. During routine sample analysis, analytical results must also fall within the Certified Range. Samples must also be diluted within the Certified Range provided that holding times have not expired.

During laboratory certification, an analytical method is tested over a certain concentration range to determine the Certified Range. A typical tested concentration range would be 0, 0.5X, 1.0X, 2.0X, 5.0X, and 10.0X, where X is the Target Reporting Limit (TRL). The Certified Reporting Limit (CRL) is determined by comparing the target and actual concentrations of the tested range. The upper Certified Range is the highest target concentration achieved.

If a sample analysis indicates that the sample was not diluted adequately to be within the Certified Range, the result is reported as greater than (>) the upper Certified Range times any dilution factors. If a sample has exceeded its holding time and the result is greater than the Certified Range, the result is reported as greater than the upper Certified Range. If holding times are exceeded in attempting to dilute the sample until all

results are within the Certified Range, results that are not identified above the Certified Range, but that may be present at concentrations above the certified detection limit, are reported as the detection limit times the dilution factor.

Several compounds detected by GC/MS were not included in the target compound list and were not conclusively identified. These compounds are included in the data presented in Appendix 36-3-II-B. Table 36-3-II-4 summarizes nontarget compounds detected at Site 36-3. It should be noted that an individual compound may have more than one retention time and that a particular retention time may be assigned to more than one compound. Therefore, Table 36-3-II-4 provides only a general indication of additional compounds that may be present.

Nontarget compounds were detected in 14 of the 16 samples analyzed by GC/MS, and 11 of these samples contained compounds related to pesticide manufacture. The most common compounds identified were unknown chlorinated compounds and impurities associated with CL<sub>6</sub>CP as illustrated in the following table:

Nontarget Compound	Number of Detections	Concentration Range (ppm)	Comments
1,3,5-Cycloheptatriene	2	20	Shell waste
1,3-Cyclopentadiene	7	9 to 70	Raw material used in pesticide manufacturing
1,2-Dichloro 1,1- difluoro ethane	2	20 to 200	Freon refrigerant
Chlordene	2	60 to 70	Byproduct associated with chlordane
Chlorinated Unknowns	52	10 to 3000	
Diethylmethyl- phosphorothioate	3	60 to 100	Possibly pesticide related
CL <sub>6</sub> CP Impurities	13	1 to 20000	

Table 36-3-11-4. Tentative Identification of Nontarget Compounds in Site 36-3 Phase II Soil Samples (page 1 of 6)

Boring Number	Interval Depth (ft)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3445	4-5	519	0.8	36-3-1X107	HTS	Tetrachloroethene	f
		549	1			Hexachloroethane	
		559	1			Trichlorocyclopentene	
		591	30			Octachlorocyclopentene	
		596	20			Hexachlorobenzene	
		614	6			Pentachloro(trichloroethenyl)benzene	
		635	1			Unknown	a
		636	2			Unknown	b
		638	2			Mirex	
		649	2			Octachloropentafulvalene	
		651	2			Unknown	a
		007	3			Chloroethane	
		146	300			Hexachloroethane	
		178	200			Hexachlorobutadiene	
		543	40			Chlorocyclohexanol	
		548	70			Hexachloroethane	
		561	50			Triethylsterphosphorodithioic acid	
3445	5-6	570	20	36-3-1X110	HMT	Tetrachlorobenzene	a
		576	200			Unknown	
		584	900			Pentachlorobenzene	a
		587	30			Unknown hexachlorinated compound	a
		591	5000			Octachlorocyclopentene	
		597	20000			Tetrachloro(dichloromethylene)cyclopentadiene	a
		612	100			Unknown	
		614	400			Pentachloro(trichloroethenyl)benzene	a
		617	30			Unknown	a
		621	20			Unknown	a
		623	20			Unknown	a
		625	30			Unknown	a
		628	400			Unknown octachlorinated compound	a
		629	60			Unknown heptachlorinated compound	a
		634	90			Unknown nanochlorinated compound	a
		635	100			Unknown nanochlorinated compound	a
3445	6-7	642	30	36-3-1X111	HNS	Unknown heptachlorinated compound	a
		646	30			Unknown hexachlorinated compound	a
		648	200			Octachloropentafulvalene	a
		651	600			Unknown octachlorinated compound	a
		668	200			Unknown octachlorinated compound	a
		007	20			Chloromethane	
		047	20			Methylester acetic acid	
		141	200			Tetrachloroethane	
		146	2000			Hexachloroethane	
		179	700			Hexachlorobutadiene	
		190	200			Trichlorocyclopentene	
		519	100			Tetrachloroethene	
		545	100			Unknown	a
		549	2000			Hexachloroethane	
		558	100			Trichlorocyclopentene	
		561	100			Tetrachlorocyclopentadiene	

Table 36-3-11-4. Tentative Identification of Nontarget Compounds in Site 36-3 Phase II Soil Samples (page 2 of 6)

Boring Number	Interval Depth (ft)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3445	6-7	562	600	36-3-IX111	HTS	Hexachlorobutadiene	
		569	200			Pentachlorocyclopentene	
		574	100			Biphenyl	
		575	100			Oxybisbenzene	a
		576	2000			Unknown pentachlorinated compound	a
		579	1000			Unknown tetrachlorinated compound	
		583	200			Pentachlorobenzene	
		584	400			Pentachlorobenzene	
		587	100			Unknown heptachlorinated compound	a
		588	200			Unknown heptachlorinated compound	a
		592	20000			Octachlorocyclopentene	
		597	20000			Tetrachlorodichloromethylene)cyclopentadiene	
		608	100			Unknown tetrachlorinated compound	a
		612	100			Unknown	a
		613	300			Unknown	a
		614	1000			Pentachloro(trichloroethenyl)benzene	
		615	100			Unknown	a
		616	90			Unknown	a
		617	400			Unknown	a
		618	600			Unknown octachlorinated compound	a
		619	200			Unknown heptachlorinated compound	a
		621	300			Unknown	a
		622	2000			Unknown octachlorinated compound	a
		623	1000			Unknown chlorinated compound	a
		624	600			Unknown chlorinated compound	a
		625	200			Unknown chlorinated compound	a
		626	100			Unknown octachlorinated compound	a
		628	3000			Unknown octachlorinated compound	a
		629	300			Unknown chlorinated compound	a
		630	100			Unknown chlorinated compound	a
		633	200			Unknown nanochlorinated compound	a
		634	800			Unknown nanochlorinated compound	a
		635	1000			Unknown nanochlorinated compound	a
		636	100			Unknown heptachlorinated compound	a
		638	1000			Mirex	
		639	300			Octachloropentafulvalene/Octachlorobiphenyl	
		641	100			Unknown octachlorinated compound	a
		642	300			Unknown octachlorinated compound	a
		644	200			Unknown chlorinated compound	
		648	2000			Octachloropentafulvalene	
		651	3000			Perchlorobiphenyl	
		668	200			Octachlorodibenzofuran	
3445	9-10	108	5	36-3-IX106	HMS	Methylcyclohexane	
		146	300			Hexachloromethane	
		153	20			1,2-dichloro 1,1-difluoro ethane	
		157	200			1,2-dichloro 1,1-difluoro ethane	
		178	200			Hexachlorobutadiene	
		549	200		HTS	Hexachloroethane	
		558	100			Trimethyl ester phosphorothioic acid	

Table 36-3-11-4. Tentative Identification of Nontarget Compounds in Site 36-3 Phase 11 Soil Samples (page 3 of 6)

Boring Number	Interval Depth (ft)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3445	9-10	559	100	36-3-1X108	HTS	Trichlorocyclopentene	
		561	80			Hexachlorobutadiene	
		563	20			Trichlorocyclopentene	
		567	100			Trichlorocyclopentene	
		569	70			Tetrachlorocyclopentene	
		576	20			Oxibenzene	
		581	100			Hexachlorobicycloheptadiene	
		584	50			Pentachlorobenzene	
		592	6000			Octachlorocyclopentene	
		596	500			Tetrachloro(dichloromethylene)cyclopentadiene	
		614	400			Pentachloro(trichloroethenyl)benzene	
		623	40			Unknown octachlorinated compound	a
		624	30			Unknown octachlorinated compound	a
		626	20			Unknown octachlorinated compound	a
		629	800			Unknown	a
		633	20			Unknown nanochlorinated compound	a
		635	100			Unknown nanochlorinated compound	a
		636	100			Unknown nanochlorinated compound	a
		638	100			Unknown nanochlorinated compound	a
		643	30			Mirex	a
		644	20			Unknown heptachlorinated compound	a
3449	4-5 8-9	614	2	36-3-1X135 36-3-1X138	HTT HTT	Unknown chlorinated compound	a
		596	1			Octachloropentafulvalene	a
						Unknown octachlorinated compound	a
						Dibutylester nonanedioic acid	d
						Tetrachloro(dichloromethylene)cyclopentadiene	
						Monobenzoatebenzenediol	a, f
						Unknown alkene	d
						Dibutylester nonanedioic acid	d
						Diocylester hexadecanoic acid	d
						Carbon sulfide	f
						Toluene	
						Xylene	
						Xylene	
						Unknown	a
						Unknown	a
						Aminophenol	
						Hydroxyphenyltrimethylammonium hydroxide	
						Methoxybenzenemethanamine	a, f
						Unknown	a
						Unknown	a, f
						Unknown	d
						Octadecanol	
3451	3-4	611	1	36-3-1X152	HTT	Unknown	
		614	0.8			Unknown	
		615	8			Unknown	
3451	8-9	629	1	36-3-1X153	HNX HTT	Unknown	
		039	4			Unknown	
		514	1			Unknown	
		525	0.9			Unknown	
		526	9			Unknown	
		529	10			Unknown	
		551	4			Unknown	
		561	1			Unknown	
		565	1			Unknown	
		569	6			Unknown	
		572	2			Unknown	
		578	0.9			Unknown	
		596	1			Unknown	
		605	0.9			Unknown	
		614	30			Unknown	
3456	4-5 8-9	588	0.7	36-3-1X177 36-3-1X180	HTT HNX	Unknown	
		086	3			1,2-dichloropropane	a, f
		095	1			Unknown	a, f

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Table 36-3-11-4. Tentative Identification of Montarget Compounds in Site 36-3 Phase II Soil Samples (page 5 of 6)

Boring Number	Interval Depth (ft)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3457	9-10	543	10	36-3-1X194	HTU	Tetrahydro-methanoindene	
		544	10			Octahydro-methanocyclobutapentalene	
		552	100			Diethylmethylphosphorothioate	a
		561	30			Unknown aromatic compound	
		562	20			Hexachlorobutadiene	
		574	20			Tetrachlorobenzene	a
		575	20			Unknown	
		576	80			Unknown	a
		578	60			Unknown	a
		579	70			Unknown	a
		581	500			Hexachlorobicycloheptadiene	
		584	8			Pentachlorobenzene	
		586	20			Unknown pentachlorinated compound	a
		587	20			Unknown	a
		588	20			Unknown	a
		591	600			Heptachlorobicycloheptene	
		592	100			Unknown chlorinated compound	a
		595	50			Unknown chlorinated compound	a
		596	700			Unknown chlorinated compound	a
		598	10			Unknown chlorinated compound	a
		601	60			Chlordene	
		603	20			Unknown	a
		607	20			Unknown	a
		608	20			Unknown	a
		609	30			Unknown	a
		611	10			Unknown chlorinated compound	a
		613	100			Unknown	a
		615	8			Unknown	a
		616	20			Unknown	a
		618	300			Unknown	a
		619	10			Unknown	a
		622	50			Unknown	a
		625	20			Unknown	a
		626	9			Unknown	a
		630	80			Unknown	a
		631	10			Unknown	a
		632	70			Unknown pentachlorinated compound	a
		634	20			Unknown	a
		639	9			Unknown	a
3458	5-6	588	0.8	36-3-1X194	HTU	Hexadecane	f
		591	2			Trimethylpentadecane	
		594	3			Heptadecane	
		595	4			Tetramethylpentadecane	
		596	2			Tetrachlorodichloromethylenecyclopentadiene	
		597	0.8			Unknown Alkane	a, f
		601	2			Tetramethylhexadecane	
		605	1			Nonadecane	
		614	2			Pentachlorotrichloroethylenbenzene	



Table 36-3-11-4. Tentative Identification of Nontarget Compounds in Site 36-3 Phase 11 Soil Samples (page 5 of 6)

Boring Number	Interval Depth (ft)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3458	7-8	034	2	36-3-1X195	HNZ	Unknown	a
		111	20			1,3,5-Cycloheptatriene	
		158	2			Propanoic acid	
		162	200			Unknown	
		178	3			Hexachlorobutadiene	a

\* Values reported are method blank corrected.

- + a. No positive identification.  
 b. Surfactant.  
 c. Plasticizer (Note: All phthalates and adipates will have this comment).  
 d. Derived from natural products.  
 e. Suspected laboratory contaminant.  
 f. Low concentration.  
 g. Low frequency of occurrence.  
 h. Ubiquitous.  
 i. Possible column bleed.  
 j. None detected.

Source: ESE, 1988.

Heptachlorobicyclo- heptene	3	0.9 to 600	Endrin intermediate
Hexachlorobenzene	1	6	Shell waste
Hexachlorobicyclo- heptadiene	3	100 to 300	Endrin intermediate
Hexachlorobutadiene	7	3 to 700	
Hexachloroethane	5	1 to 2000	By-product of chlorination
Mirex	3	2 to 1000	Insecticide
Octachlorocyclopentene	4	30 to 20000	Shell waste
Pentachlorobenzene	10	2 to 1000	
Perchlorobiphenyl	1	3000	Polychlorinated biphenyl (PCB)
Tetrachlorobenzene	2	20	
Tetrachloroethane	3	0.8 to 200	
Toluene	1	1	
Trimethylesterphosoro- dithioc acid	2	50 to 100	Possibly pesticide related
Xylene	3	0.9 to 10	

The 4- to 5-, 5- to 6-, 6- to 7-, and 9- to 10-ft samples from Boring 3445 contained elevated concentrations of Shell wastes, CL<sub>6</sub>CP impurities, mirex, and chlorinated unknowns. The 6- to 7-ft sample also had perchlorobiphenyl, a PCB. Two samples from Boring 3457 (8 to 9 and 9 to 10 ft) contained endrin intermediates, chlordene, and several chlorinated unknowns. The 8- to 9-ft samples from Borings 3449, 3451, and 3456 as well as Boring 3453 (5 to 6 and 7 to 8 ft) also contained nontarget compounds related to pesticides.

Results of the Phase II sampling program at Site 36-3 will be assessed as part of the overall analysis of the Central Study Area Report.

## 5.0 REFERENCES

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Environmental Science and Engineering, Inc. (ESE). 1987a. Final Phase I Contamination Assessment Report: Site 36-3: Insecticide Pit (Task 1). Prepared for the Office of the Program Manager, Rocky Mountain Arsenal.

**APPENDIX 36-3-II-A**  
**CHEMICALS NAMES, METHODS, AND ABBREVIATIONS**

APPENDIX 36-3-II-A  
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

PHASE I ANALYTES AND CERTIFIED METHODS

Analytes/Methods	Synonymous Names and Abbreviations	Standard Abbreviations
<b>VOLATILE ORGANIC COMPOUNDS/GCMS</b>	<b>VOL</b>	<b>VO</b>
1,1-Dichloroethane	1,1-Dichloroethane	11DCLE
1,2-Dichloroethane	1,2-Dichloroethane	12DCLE
1,1,1-Trichloroethane (TCA)	1,1,1-Trichloroethane	111TCE
1,1,2-Trichloroethane	1,1,2-Trichloroethane	112TCE
Benzene	Benzene	C <sub>6</sub> H <sub>6</sub>
Bicycloheptadiene	Bicycloheptadiene (BCHD)	BCHPD
Carbon tetrachloride	Carbon tetrachloride	CCl <sub>4</sub>
Chlorobenzene	Chlorobenzene	ClC <sub>6</sub> H <sub>5</sub>
Chloroform	Chloroform	CHCl <sub>3</sub>
Dibromochloropropane	Dibromochloropropane	DBCP
Dicyclopentadiene	Dicyclopentadiene	DCPD
Dimethyldisulfide	Dimethyldisulfide	DMDS
Ethylbenzene	Ethylbenzene	ETC <sub>6</sub> H <sub>5</sub>
m-Xylene	meta-Xylene	13DMB
Methylene chloride	Methylene chloride	CH <sub>2</sub> Cl <sub>2</sub>
Methylisobutyl ketone	Methylisobutyl ketone	MIBK
o,p-Xylene	ortho- and/or para-Xylene	XYLEN
Tetrachloroethene (PCE)	Tetrachloroethylene	TCLEE
Toluene	Toluene	MEC <sub>6</sub> H <sub>5</sub>
Trans 1,2-dichloroethene	Trans 1,2-dichloroethylene	12DCE
Trichloroethene (TCE)	Trichloroethylene	TRCLE
<b>SEMIVOLATILE ORGANIC COMPOUNDS/GCMS</b>	<b>EXTRACTABLE ORGANIC COMPOUNDS (EX)</b>	<b>SVO</b>
1,4-Oxathiane	1,4-Oxathiane	OXAT
2,2-Bis (para-chlorophenyl)- 1,1-dichloroethane	Dichlorodiphenylethane	PPDDE
2,2-Bis (para-chlorophenyl)- 1,1,1-trichloroethane	Dichlorodiphenyltrichloroethane	PPDDT
Aldrin	Aldrin	ALDRN
Atrazine	Atrazine	ATZ
Chlordane	Chlordane	CLDAN
Chlorophenylmethyl sulfide	p-Chlorophenylmethyl sulfide	CPMS
Chlorophenylmethyl sulfoxide	p-Chlorophenylmethyl sulfoxide	CPMSO
Chlorophenylmethyl sulfone	p-Chlorophenylmethyl sulfone	CPMSO <sub>2</sub>
Dibromochloropropane	Dibromochloropropane	DBCP
Dicyclopentadiene	Dicyclopentadiene	DCPD
Dieldrin	Dieldrin	DLDRN
Diisopropylmethyl phosphonate	Diisopropylmethyl phosphonate	DIMP

**APPENDIX 36-3-II-A**  
**CHEMICAL NAMES, METHODS, AND ABBREVIATIONS**

<b>Analytes/Methods</b>	<b>Synonymous Names and Abbreviations</b>	<b>Standard Abbreviations</b>
<b>SEMIVOLATILE ORGANIC COMPOUNDS (CONT)</b>		
Dimethylmethyl phosphonate	Dimethylmethyl phosphonate	DMMP
Dithiane	Dithiane	DITH
Endrin	Endrin	ENDRN
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene (HCPD)	CL <sub>6</sub> CP
Isodrin	Isodrin	ISODR
Malathion	Malathion	MLTHN
Parathion	Parathion	PRTHN
Supona	2-Chloro-1(2,4-dichlorophenyl) vinyl diethyl phosphate	SUPONA
Vapona	Vapona	DDVP
<b>METALS/ICP</b>		
Cadmium	ICAP Cadmium	ICP CD
Chromium	Chromium	CR
Copper	Copper	CU
Lead	Lead	PB
Zinc	Zinc	ZN
<b>SEPARATE ANALYSES</b>		
Arsenic/AA	Arsenic	AS
Mercury/AA	Mercury	HG
Dibromochloropropane/GC	Dibromochloropropane	DBCP

APPENDIX 36-3-II-A  
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

PHASE II ANALYTES AND CERTIFIED METHODS

Analytes/Methods	Synonymous Names and Abbreviations	Standard Abbreviations
VOLATILE ORGANIC COMPOUNDS/GCMS (Same as Phase I)	VOL	VO
SEMIVOLATILE ORGANIC COMPOUNDS/GCMS (Same as Phase I)	EXTRACTABLE ORGANIC COMPOUNDS (EX)	SVO
VOLATILE HALOCARBON COMPOUNDS/GCCON	PURGEABLE HALOCARBONS (PHC)	VHO
1,1-Dichloroethane	1,1-Dichloroethane	11DCLE
1,2-Dichloroethane	1,2-Dichloroethane	12DCLE
1,1-Dichloroethene	1,1-Dichloroethene	11DCE
1,1,1-Trichloroethane (TCA)	1,1,1-Trichloroethane	111TCE
1,1,2-Trichloroethane	1,1,2-Trichloroethane	112TCE
Carbon tetrachloride	Carbon tetrachloride	CCL <sub>4</sub>
Chlorobenzene	Chlorobenzene	CLC <sub>6</sub> H <sub>5</sub>
Chloroform	Chloroform	CHCL <sub>3</sub>
Methylene chloride	Methylene chloride	CH <sub>2</sub> CL <sub>2</sub>
Trans 1,2-dichloroethylene	Trans 1,2-dichloroethene	12DCE
Tetrachloroethene (PCE)	Tetrachloroethylene	TCLEF
Trichloroethene (TCE)	Trichloroethylene	TRCLE
VOLATILE HYDROCARBON COMPOUNDS/GCFID	DCPD	HYDCBN
Bicycloheptadiene	Bicycloheptadiene (BCHD)	BCHPD
Dicyclopentadiene	Dicyclopentadiene	DCPD
Methylisobutyl ketone	Methylisobutyl ketone	MIBK
VOLATILE AROMATIC COMPOUNDS/GCPID	PURGEABLE AROMATICS (PAM)	VAO
Benzene	Benzene	C <sub>6</sub> H <sub>6</sub>
Ethylbenzene	Ethylbenzene	ETC <sub>6</sub> H <sub>5</sub>
m-Xylene	meta-Xylene	13DMB
o,p-Xylene	ortho- and/or para-Xylene	XYLEN
Toluene	Toluene	MEC <sub>6</sub> H <sub>5</sub>
ORGANOCHLORINE PESTICIDES/GCEC		OCP
2,2-Bis (para-chlorophenyl)- 1,1-dichloroethane	Dichlorodiphenylethane	PPDDE
2,2-Bis (para-chlorophenyl)- 1,1,1-trichloroethane	Dichlorodiphenyltrichloroethane	PPDDT
Aldrin	Aldrin	ALDRN
Chlordane	Chlordane	CLDAN
Dieldrin	Dieldrin	DLDRN
Endrin	Endrin	ENDRN
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene	CL <sub>6</sub> CP
Isodrin	Isodrin	ISODR

APPENDIX 36-3-II-A  
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

Analytes/Methods	Synonymous Names and Abbreviations	Standard Abbreviations
ORGANOPHOSPHOROUS PESTICIDES/GCNP	ORGANOPHOSPHOROUS COMPOUNDS (OPC)	OPP
Atrazine	Atrazine	ATZ
Malathion	Malathion	MLTHN
Parathion	Parathion	PRTHN
Supona	2-Chloro-1(2,4-dichlorophenyl) vinyl diethyl phosphate	SUPONA
Vapona	Vapona	DDVP
ORGANOPHOSPHOROUS COMPOUNDS/GCFPD	DIMP	OPC
Diisopropylmethyl phosphonate	Diisopropylmethyl phosphonate	DIMP
Dimethylmethyl phosphonate	Dimethylmethyl phosphonate	DMMP
ORGANOSULPHUR COMPOUNDS/GCFPD		OSC
1,4-Oxathiane	1,4-Oxathiane	OXAT
Benzothiazole	Benzothiazole	BTZ
Chlorophenylmethyl sulfide	p-Chlorophenylmethyl sulfide	CPMS
Chlorophenylmethyl sulfone	p-Chlorophenylmethyl sulfone	CPMSO <sub>2</sub>
Chlorophenylmethyl sulfoxide	p-Chlorophenylmethyl sulfoxide	CPMSO
Dimethyldisulfide	Dimethyldisulfide	DMDS
Dithiane	Dithiane	DITH
METALS/ICP	ICAP	ICP
Cadmium	Cadmium	CD
Chromium	Chromium	CR
Copper	Copper	CU
Lead	Lead	PB
Zinc	Zinc	ZN
SEPARATE ANALYSES		
Arsenic/AA	Arsenic	AS
Mercury/AA	Mercury	HG
Dibromochloropropane/GC	Dibromochloropropane	DBCP



APPENDIX 36-3-II-A  
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

Analytes/Methods	Synonymous Names and Abbreviations	Standard Abbreviations
ARMY AGENT DEGRADATION PRODUCTS:		ADP
AGENT PRODUCTS/HPLC	TDGCL	
Chloroacetic Acid	Chloroacetic acid	CLC2A
Thiodiglycol	Thiodiglycol (TDG)	TDGCL
AGENT PRODUCTS/IONCHROM	IMPA	GBDP
Fluoroacetic acid	Fluoroacetic acid	FC2A
Isopropylmethylphosphonic acid	Isopropylmethylphosphonate	IMPA
Methylphosphonic acid	Methylphosphonate	MPA

Methods	Abbreviations
Atomic Absorption Spectroscopy	AA
Gas Chromatography/Conductivity Detector	GCCON
Gas Chromatography/Electron Capture	GCEC
Gas Chromatography/Flame Ionization Detector	GCFID
Gas Chromatography/Flame Photometric	GCFPD
Gas Chromatography/Mass Spectrometry	GCMS
Gas Chromatography/Nitrogen Phosphorous Detector	GCNPD
Gas Chromatography/Photoionization Detector	GCPID
High Performance Liquid Chromatography	HPLC
Inductively Coupled Argon Plasma	ICP, ICAP
Ion Chromatography	IONCHROM

**APPENDIX 36-3-II-B**  
**PHASE II CHEMICAL DATA**



PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
PROJECT NAME RMA TASK 1 PHASE 11  
PROJECT MANAGER JJV  
LAB COORDINATOR JOE VONDRICA

PARAMETERS	UNITS	STORET #	3430A 36-3-1	3430B 36-3-1	3431A 36-3-1	3431B 36-3-1	3432A 36-3-1	3432B 36-3-1	3433A 36-3-1	3433B 36-3-1	3434A 36-3-1	3434B 36-3-1	3435A 36-3-1	3435B 36-3-1	3436A 36-3-1	3436B 36-3-1	3437A 36-3-1
DATE	TIME	METHOD	07/06/87 11:21	07/06/87 12:04	07/07/87 07:10	07/07/87 07:38	07/08/87 08:54	07/08/87 05:19	07/07/87 08:24	07/07/87 08:45	07/07/87 09:54	07/07/87 10:14	07/08/87 10:16	07/08/87 10:41	07/09/87 07:18	07/09/87 07:42	07/09/87 08:32
DBCP(MEMAGON)	UG/G-DRY	98652	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BICYCLOHEPTADIENE	UG/G-DRY	98686	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08
METHYLISOBUTYLKETONE	UG/G-DRY	98696	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24
DICYCLOPENTADIENE	UG/G-DRY	98651	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
MERCURY	UG/G-DRY	71921	<0.070	<0.070	0.241	<0.081	<0.070	<0.081	0.428	<0.081	0.088	<0.081	0.198	<0.081	0.106	<0.081	0.357
BENZENE	UG/G-DRY	98699	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
TOLUENE	UG/G-DRY	98691	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096
ETHYLBENZENE	UG/G-DRY	98688	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
M-XYLENE	UG/G-DRY	98695	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053
O-AND/OR P-XYLENE	UG/G-DRY	98700	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086
METHYLENE CHLORIDE	UG/G-DRY	98689	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
1,1-DICHLOROETHENE	UG/G-DRY	98789	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,1-DICHLOROETHANE	UG/G-DRY	98683	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
TRANS-1,2-DICHLOROETHENE	UG/G-DRY	98687	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
CHLOROFORM	UG/G-DRY	98682	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-DICHLOROETHANE	UG/G-DRY	98684	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
ETHANE	UG/G-DRY	98690	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
TETRACHLOROETHENE	UG/G-DRY	98681	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
CHLOROBENZENE	UG/G-DRY	98681	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
MERCURY, SED	UG/G-DRY	71921	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
UG/G-DRY	UG/G-DRY	V9	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070

# ENVIRONMENTAL SCIENCE & ENGINEERING 05/09/86

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1RP

PROJECT NAME RMA TASK 1 PHASE 1  
PROJECT MANAGER JJV  
LAB COORDINATOR JOE VONDELIC

PARAMETERS	UNITS	STORET #	3430A	3430B	3431A	3431B	3432A	3432B	3433A	3433B	3434A	3434B	3435A	3435B	3436A	3436B	3437A
METHOD			36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
			1	2	8	9	15	16	22	23	29	30	36	37	43	44	50
DATE			07/06/87	07/06/87	07/07/87	07/07/87	07/08/87	07/08/87	07/07/87	07/07/87	07/07/87	07/07/87	07/08/87	07/08/87	07/09/87	07/09/87	07/09/87
TIME			11:21	12:04	07:10	07:28	08:54	09:19	08:24	08:45	09:54	10:14	10:16	10:41	07:18	07:42	06:32

ALDRIN	UG/G-DRY	98356
ATRAZINE	UG/G-DRY	98655
CHLORDANE	UG/G-DRY	98361
P-CLPHENYLMETHY-	UG/G-DRY	98653
SULFIDE	UG/G-DRY	98654
P-CLPHENYLMETHY-	UG/G-DRY	98654
SULFOXIDE	UG/G-DRY	98703
P-CLPHENYLMETHY-	UG/G-DRY	98703
SULFONE	UG/G-DRY	98652
DBCP(NEMAGON)	UG/G-DRY	98652
DICYCLOPENTADIENE	UG/G-DRY	98651
DDT, PP'	UG/G-DRY	98363
DDT, PP'	UG/G-DRY	98364
DIELDRIN	UG/G-DRY	98365
DIMP	UG/G-DRY	98645
1,4 DITHIANE	UG/G-DRY	98650
DIMP	UG/G-DRY	98657
ENDRIN	UG/G-DRY	98369
HEXACHLOROCYCLOPENT-	UG/G-DRY	98647
ADIENE	UG/G-DRY	98649
ISODRIN	UG/G-DRY	98648
MALATHION	UG/G-DRY	98648
1,4 OXATHIANE	UG/G-DRY	98644
ETY'PARATHION	UG/G-DRY	98658
SUPONA	UG/G-DRY	98656
VAPONA	UG/G-DRY	98646
DICYCLOPENTADIENE	UG/G-DRY	98651

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1RP

PROJECT NAME PMA TASK 1 PHASE 11  
PROJECT MANAGER JJV  
LAB COORDINATOR JOE VONDRICK

PARAMETERS	UNITS	STORET #	METHOD	3430A	3430B	3431A	3431B	3432A	3432B	3433A	3433B	3434A	3434B	3435A	3435B	3436A	3436B	3437A
				36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
				1	2	8	9	15	16	22	23	29	30	36	37	41	44	50
DATE				07/06/87	07/06/87	07/07/87	07/07/87	07/08/87	07/08/87	07/07/87	07/07/87	07/07/87	07/07/87	07/08/87	07/08/87	07/09/87	07/09/87	07/09/87
TIME				11:21	12:04	07:10	07:38	08:54	09:19	08:24	08:45	09:54	10:14	10:16	10:41	07:18	07:42	08:52

TRANS-1,2-DICHLOROETHANE 98687  
METHYLENE CHLORIDE 98688  
ETHYLENE CHLORIDE 98689  
TETRACHLOROETHYLENE 98690  
TOLUENE 98691  
1,1,1-TRICHLOROETHANE 98692  
ETHANE 98693  
1,1,2-TRICHLOROETHANE 98694  
TRICHLOROETHYLENE 98695  
M-XYLENE 98696  
MIBK 98697  
DNDS 98698  
BENZENE 98699  
O-AND/OR P-XYLENE 98700  
CARBON TETRACHLORIDE 98680  
CHLOROBENZENE 98681  
CHLOROFORM 98682  
1,1-DICHLOROETHANE 98683  
1,2-DICHLOROETHANE 98684  
BICYCLOHEPTADIENE 98686  
DBCP (NEMAGON) 98652  
THIODIGLYCOL 98652  
CHLOROACETIC ACID 98652  
IMPA 98652

PROJECT NAME PHASE 1 PHASE 1  
PROJECT MANAGER JUV  
LAB COORDINATOR JOE VONDRICK

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1FP

SAMPLE ID #

PARAMETERS	STORY #	UNITS	DATE	TIME	3430A	3430B	3431A	3431B	3432A	3432B	3433A	3433B	3434A	3434B	3435A	3435B	3436A	3436B	3437A
					36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
					1	2	8	9	15	16	22	23	29	30	36	37	43	44	50
					07/06/87	07/06/87	07/07/87	07/07/87	07/06/87	07/06/87	07/07/87	07/07/87	07/07/87	07/07/87	07/06/87	07/06/87	07/09/87	07/09/87	07/09/87
					11:21	12:04	07:10	07:38	08:54	09:19	08:24	08:45	09:54	10:14	10:16	10:41	07:18	07:42	08:32

FLUOROACETIC ACID

UG/G

MPA

UNK007

UNK034

UNK039

UNK047

UNK058

UNK075

UNK086

UNK095

UNK102

UNK108

UNK111

UNK112

UNK114

UNK116

UNK121

UNK124

UNK141

UNK143

UNK144

UNK146

UNK147

H9

# ENVIRONMENTAL SCIENCE & ENGINEERING 05/09/88

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1PP

PROJECT NAME RMA TASK 1 PHASE 1  
PROJECT MANAGER JJV  
LAB COORDINATOR JOE VONDEPICK

PAGE# 6

PARAMETERS	UNITS	STORET #	METHOD	3430A	3430B	3431A	3431B	3432A	3432B	3433A	3433B	3434A	3434B	3435A	3435B	3436A	3436B	3437A
				36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
				1	2	8	9	15	16	22	23	29	30	36	37	43	44	50
DATE				07/06/87	07/06/87	07/07/87	07/07/87	07/08/87	07/08/87	07/07/87	07/07/87	07/07/87	07/07/87	07/08/87	07/08/87	07/09/87	07/09/87	07/09/87
TIME				11:21	12:04	07:10	07:38	08:54	09:19	08:24	08:45	09:54	10:14	10:16	10:41	07:18	07:42	08:32

UNK153	UG/G	90153	W9
UNK156	UG/G	90156	W9
UNK157	UG/G	90157	W9
UNK158	UG/G	90158	W9
UNK159	UG/G	90159	W9
UNK162	UG/G	90162	W9
UNK163	UG/G	90163	W9
UNK175	UG/G	90175	W9
UNK178	UG/G	90178	W9
UNK179	UG/G	90179	W9
UNK190	UG/G	90190	W9
UNK193	UG/G	90193	W9
UNK514	UG/G	90514	W9
UNK519	UG/G	90519	W9
UNK525	UG/G	90525	W9
UNK526	UG/G	90526	W9
UNK529	UG/G	90529	W9
UNK543	UG/G	90543	W9
UNK545	UG/G	90545	W9
UNK544	UG/G	90544	W9
UNK548	UG/G	90548	W9
UNK549	UG/G	90549	W9
UNK551	UG/G	90551	W9



PROJECT NAME EML TASK 1 PHASE 11  
 PROJECT MANAGER JJA  
 LAB COORDINATOR JOE VONDRICK

SAMPLE ID #

PARAMETERS	UNITS	STORET #	3430A	3430B	3431A	3431B	3432A	3432B	3433A	3433B	3434A	3434B	3435A	3435B	3436A	3436B	3437A
			36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
			1	2	8	9	15	16	22	23	26	26	36	37	43	44	50
		METHOD	1	2	8	9	15	16	22	23	26	26	36	37	43	44	50

UNK552	UG/G	90552	07:06:87	07:06:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87	07:07:87
UNK558	UG/G	90558	11:21	12:04	07:10	07:38	08:54	09:19	08:24	08:45	09:54	10:14	10:16	10:41	07:09:87	07:09:87	07:09:87
UNK559	UG/G	90559															
UNK561	UG/G	90561															
UNK562	UG/G	90562															
UNK563	UG/G	90563															
UNK565	UG/G	90565															
UNK567	UG/G	90567															
UNK569	UG/G	90569															
UNK570	UG/G	90570															
UNK572	UG/G	90572															
UNK574	UG/G	90574															
UNK575	UG/G	90575															
UNK576	UG/G	90576															
UNK578	UG/G	90578															
UNK579	UG/G	90579															
UNK581	UG/G	90581															
UNK583	UG/G	90583															
UNK584	UG/G	90584															
UNK586	UG/G	90586															
UNK587	UG/G	90587															
UNK588	UG/G	90588															
UNK591	UG/G	90591															

PROJECT NUMBER 84936 0300 PROJECT NAME PM TASA 1 PHASE 11  
 FIELD GROUP 36-3-1 PROJECT MANAGER JUI  
 36-3-1RP LAR COORDINATOR JUI VONDEICK

SAMPLE ID #

STORET #	3430A	3430B	3431A	3431B	3432A	3432B	3433A	3433B	3434A	3434B	3435A	3435B	3436A	3436B	3437A
METHOD	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
UNITS	1	2	8	9	15	16	22	23	29	30	34	37	43	44	50
DATE	07 06 87	07 06 87	07 07 87	07 07 87	07 08 87	07 08 87	07 08 87	07 07 87	07 07 87	07 07 87	07 08 87	07 08 87	07 09 87	07 09 87	07 09 87
TIME	11:21	12:04	07:10	07:36	09:54	09:19	06:24	08:45	09:54	10:14	10:19	10:43	07:16	07:42	08:52

UNK592	UG/G	90592
UNK594	UG/G	90594
UNK595	UG/G	90595
UNK596	UG/G	90596
UNK597	UG/G	90597
UNK598	UG/G	90598
UNK601	UG/G	90601
UNK603	UG/G	90603
UNK605	UG/G	90605
UNK607	UG/G	90607
UNK608	UG/G	90608
UNK609	UG/G	90609
UNK611	UG/G	90611
UNK612	UG/G	90612
UNK613	UG/G	90613
UNK614	UG/G	90614
UNK615	UG/G	90615
UNK616	UG/G	90616
UNK617	UG/G	90617
UNK618	UG/G	90618
UNK619	UG/G	90619
UNK621	UG/G	90621
UNK622	UG/G	90622

PROJECT NUMREF 84936 0300  
 FIELD GROUP 36-3-1  
 PROJECT NAME PM TASH I PHASE I  
 PROJECT MANAGER JAY  
 LAC COORDINATOR JOE VONDFLOH

## SAMPLE ID #

PARAMETERS	UNITS	STOFT #	METHOD	3430A 36-3-1	3430B 36-3-1	3431A 36-3-1	3431B 36-3-1	3432A 36-3-1	3432B 36-3-1	3433A 36-3-1	3433B 36-3-1	3434A 36-3-1	3434B 36-3-1	3435A 36-3-1	3435B 36-3-1	3436A 36-3-1	3436B 36-3-1	DATE TIME
UNK623	UC/G	50623		07:06:07	07:06:07	07:07:07	07:07:07	07:08:07	07:08:07	07:07:07	07:07:07	07:07:07	07:07:07	07:07:07	07:07:07	07:07:07	07:07:07	07:09:07
UNK624	UC/G	50624		11:21	12:04	07:10	07:38	08:54	09:19	08:24	08:45	09:54	10:14	10:14	10:21	10:42	07:09:07	07:09:07
UNK625	UC/G	50625																
UNK626	UC/G	50626																
UNK627	UC/G	50627																
UNK628	UC/G	50628																
UNK629	UC/G	50629																
UNK630	UC/G	50630																
UNK631	UC/G	50631																
UNK632	UC/G	50632																
UNK633	UC/G	50633																
UNK634	UC/G	50634																
UNK635	UC/G	50635																
UNK636	UC/G	50636																
UNK638	UC/G	50638																
UNK639	UC/G	50639																
UNK641	UC/G	50641																
UNK642	UC/G	50642																
UNK643	UC/G	50643																
UNK644	UC/G	50644																
UNK646	UC/G	50646																
UNK648	UC/G	50648																
UNK649	UC/G	50649																

PROJECT NUMBER 64936 0300 FMA TASK 1 PHASE 11  
FIELD GROUP 36-3-1 PROJECT MANAGER JJV  
36-3-1RP LAB COORDINATOR JOE WONDOPICA

SAMPLE 10.8

PARAMETERS	UNITS	STORET #	METHOD	3430A	3430B	3431A	3431B	3432A	3432B	3433A	3433B	3434A	3434B	3435A	3435B	3436A	3436B	3437A
				36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
				1	2	6	9	15	16	22	23	29	30	34	37	42	44	50
DATE				07/06/87	07/06/87	07/07/87	07/07/87	07/08/87	07/08/87	07/07/87	07/07/87	07/07/87	07/07/87	07/08/87	07/08/87	07/09/87	07/09/87	07/09/87
TIME				11:21	12:04	07:10	07:38	08:54	09:19	08:24	08:45	09:54	10:14	10:16	10:21	07:16	07:42	06:32

UNK651 UC/G 90651  
UNK668 UC/G 90668 Q9

ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1RP

PROJECT NAME PMA TASH HOUSE  
PROJECT MANAGER JON  
LAE COORDINATOR JOE MONOPIC

PARAMETERS	UNITS	STORET #	3437B 36-3-1 51	3438A 36-3-1 57	3438B 36-3-1 58	3439A 36-3-1 64	3439B 36-3-1 65	3440A 36-3-1 71	3440B 36-3-1 72	3441A 36-3-1 76	3441B 36-3-1 79	3442A 36-3-1 85	3442B 36-3-1 86	3442C 36-3-1 89	3443A 36-3-1 92	3443B 36-3-1 93	3443C 36-3-1 96
DATE			07-09-87 08:54	07-09-87 09:53	07-09-87 10:20	07-14-87 07:13	07-14-87 07:27	07-14-87 08:17	07-14-87 08:42	07-14-87 09:52	07-14-87 10:10	07-15-87 07:56	07-15-87 08:36	07-15-87 08:56	07-21-87 06:36	07-21-87 06:53	07-21-87 07:17
SAMPLE TYPE			SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
SITE TYPE			BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
SAMPLE DEPTH	FT		4.00	0.0	4.00	0.0	1.02	0.0	4.00	0.0	4.00	0.0	4.00	4.99	0.0	4.00	6.99
SAMPLING TECHNIQUE			S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
INSTALLATION CODE			99720	99720	99720	99720	99720	99720	99720	99720	99720	99720	99720	99720	99720	99720	99720
MOISTURE			70320	70320	70320	70320	70320	70320	70320	70320	70320	70320	70320	70320	70320	70320	70320
HEXACHLOROCYCLOPENT- ADIENE	UG/G-DRY		98647	98647	98647	98647	98647	98647	98647	98647	98647	98647	98647	98647	98647	98647	98647
ALDRIN, SED	UG/G-DRY		98356	98356	98356	98356	98356	98356	98356	98356	98356	98356	98356	98356	98356	98356	98356
ISODRIN	UG/G-DRY		98649	98649	98649	98649	98649	98649	98649	98649	98649	98649	98649	98649	98649	98649	98649
DDT, PP	UG/G-DRY		98363	98363	98363	98363	98363	98363	98363	98363	98363	98363	98363	98363	98363	98363	98363
DIELDRIN	UG/G-DRY		98365	98365	98365	98365	98365	98365	98365	98365	98365	98365	98365	98365	98365	98365	98365
ENDRIN	UG/G-DRY		98369	98369	98369	98369	98369	98369	98369	98369	98369	98369	98369	98369	98369	98369	98369
DDT, PP	UG/G-DRY		98364	98364	98364	98364	98364	98364	98364	98364	98364	98364	98364	98364	98364	98364	98364
CHLORDANE, SED	UG/G-DRY		98361	98361	98361	98361	98361	98361	98361	98361	98361	98361	98361	98361	98361	98361	98361
DIMP	UG/G-DRY		98645	98645	98645	98645	98645	98645	98645	98645	98645	98645	98645	98645	98645	98645	98645
DMPP	UG/G-DRY		98657	98657	98657	98657	98657	98657	98657	98657	98657	98657	98657	98657	98657	98657	98657
DMDS	UG/G-DRY		98697	98697	98697	98697	98697	98697	98697	98697	98697	98697	98697	98697	98697	98697	98697
1,4 OXATHIANE	UG/G-DRY		98644	98644	98644	98644	98644	98644	98644	98644	98644	98644	98644	98644	98644	98644	98644
1,4 DITHIANE	UG/G-DRY		98650	98650	98650	98650	98650	98650	98650	98650	98650	98650	98650	98650	98650	98650	98650
P-CLIPHEN-1-METHY- SULFIDE	UG/G-DRY		98653	98653	98653	98653	98653	98653	98653	98653	98653	98653	98653	98653	98653	98653	98653
BENZOTHIADOLE	UG/G		97302	97302	97302	97302	97302	97302	97302	97302	97302	97302	97302	97302	97302	97302	97302
P-CLIPHEN-1-METHY- SULFOYIDE	UG/G-DRY		98654	98654	98654	98654	98654	98654	98654	98654	98654	98654	98654	98654	98654	98654	98654
P-CLIPHEN-1-METHY- SULFONE	UG/G-DRY		96703	96703	96703	96703	96703	96703	96703	96703	96703	96703	96703	96703	96703	96703	96703

B-11

**Author's Note:**

**B-12**

PROJECT NUMBER 64936 030H			PROJECT NAME PM TASK 1 PHASE 11											
FIELD GROUP 36-3-1			PROJECT MANAGER JJ											
36-3-1RP			LAB CODE INIT OF JOE VONDRICA											
PARAMETERS	UNITS	STORE #	DATE	TIME	SAMPLE ID #	3440A	3440B	3441A	3441B	3442A	3442B	3443A	3443B	3445
ALDRIN	UG/G-DRY	98356	07/09/87	08:54	3437B	36-3-1	36-3-1	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
ATRAZINE	UG/G-DRY	98655	07/09/87	09:52	3438A	36-3-1	36-3-1	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
CHLORDANE	UG/G-DRY	98361	07/09/87	10:20	3438B	36-3-1	36-3-1	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
P-CLPHENYLMETHY-	UG/G-DRY	98653			3439A	36-3-1	36-3-1	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
SULFIDE	UG/G-DRY	98654			3439B	36-3-1	36-3-1	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
P-CLPHENYLMETH/-	UG/G-DRY	98703			3438E	36-3-1	36-3-1	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
SULFOXIDE	UG/G-DRY	98652			51	57	58	64	65	71	72	78	79	85
P-CLPHENYLMETHY-	UG/G-DRY	98651												
SULFONE	UG/G-DRY	98363												
DBCP (NEMAGON)	UG/G-DRY	98364												
DICYCLOPENTADIENE	UG/G-DRY	98651												
DDE, PP'	UG/G-DRY	98363												
DDT, PP'	UG/G-DRY	98364												
DIELDRIN	UG/G-DRY	98365												
DIMP	UG/G-DRY	98645												
1,4 DITHIANE	UG/G-DRY	98650												
DMMP	UG/G-DRY	98657												
ENDRIN	UG/G-DRY	98369												
HEXACHLOROCYCLOPENT-	UG/G-DRY	98647												
ADIENE	UG/G-DRY	98649												
ISODRIN	UG/G-DRY	98648												
MALATHION	UG/G-DRY	98644												
1,4 OXATHIANE	UG/G-DRY	98658												
ETY'PARATHION	UG/G-DRY	98656												
SUPONA	UG/G-DRY	98646												
VAPONA	UG/G-DRY	98651												
DICYCLOPENTADIENE	UG/G-DRY	98651												
UG/G-DRY		W9												

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1PP

PROJECT NAME FPA TASK 1 PHASE 11  
PROJECT MANAGER JUV  
LAB COORDINATOR JOE VONDELICK

PARAMETERS	UNITS	STORET #	3437B 36-3-1 51	3438A 36-3-1 5	3438B 36-3-1 56	3439A 36-3-1 64	3439B 36-3-1 65	3440A 36-3-1 71	3440B 36-3-1 72	3441A 36-3-1 78	3441B 36-3-1 79	3442A 36-3-1 85	3442B 36-3-1 86	3443A 36-3-1 92	3443B 36-3-1 93	3443C 36-3-1 96
DATE			07:09:87	07:09:87	07:09:87	07:14:87	07:14:87	07:14:87	07:14:87	07:14:87	07:14:87	07:15:87	07:15:87	07:21:87	07:21:87	07:21:87
TIME			08:54	09:55	10:20	07:13	07:12	08:17	08:42	09:55	10:10	07:33	07:56	06:09	06:55	07:17
TRANS-1,2-DICHLOROETHENE	UG/G-DRY	98687														
ETHYLBENZENE	UG/G-DRY	98688														
METHYLENE CHLORIDE	UG/G-DRY	98689														
TETRACHLOROETHENE	UG/G-DRY	98690														
TOLUENE	UG/G-DRY	98691														
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692														
ETHANE	UG/G-DRY	98693														
1,1,2-TRICHLOROETHANE	UG/G-DRY	98694														
TRICHLOROETHENE	UG/G-DRY	98695														
M-XYLENE	UG/G-DRY	98696														
MIBK	UG/G-DRY	98697														
DMS	UG/G-DRY	98698														
BENZENE	UG/G-DRY	98699														
O-AND/OR P-XYLENE	UG/G-DRY	98700														
CARBON TETRACHLORIDE	UG/G-DRY	98680														
CHLOROBENZENE	UG/G-DRY	98681														
CHLOROFORM	UG/G-DRY	98682														
1,1-DICHLOROETHANE	UG/G-DRY	98683														
1,2-DICHLOROETHANE	UG/G-DRY	98684														
BICYCLOHEPTADIENE	UG/G-DRY	98686														
DBCP(NEMACON)	UG/G-DRY	98652														
THIODIGLYCOL	UG/G	99796														
CHLOROACETIC ACID	UG/G	97285														
IMPA	UG/G	97382														
	UG/G	AAA9														



PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
PROJECT NAME FMA TASH 1 PHASE 1  
PROJECT MANAGER JJJ  
LIFE COORDINATOR JOE VONDRICK

PARAMETERS	UNITS	STORET #	METHOD	3437B	3438A	3438B	3439A	3439B	3440A	3440B	3441A	3441B	3442A	3442B	3442C	3443A	3443B	3443C
DATE				07/09/87	07/09/87	07/09/87	07/14/87	07/14/87	07/14/87	07/14/87	07/14/87	07/14/87	07/15/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
TIME				08:54	09:53	10:20	07:13	07:27	08:17	08:42	09:53	10:10	07:55	07:55	07:55	06:53	06:53	06:53
FLUOROACETIC ACID	UG/G	97381	AAA9															
MPA	UG/G	97383	AAA9															
UNK007	UG/G	90007	W9															
UNK034	UG/G	90034	W9															
UNK039	UG/G	90039	W9															
UNK047	UG/G	90047	W9															
UNK058	UG/G	90058	W9															
UNK075	UG/G	90075	W9															
UNK086	UG/G	90086	W9															
UNK095	UG/G	90095	W9															
UNK102	UG/G	90102	W9															
UNK108	UG/G	90108	W9															
UNK111	UG/G	90111	W9															
UNK112	UG/G	90112	W9															
UNK114	UG/G	90114	W9															
UNK116	UG/G	90116	W9															
UNK121	UG/G	90121	W9															
UNK124	UG/G	90124	W9															
UNK141	UG/G	90141	W9															
UNK143	UG/G	90143	W9															
UNK144	UG/G	90144	W9															
UNK146	UG/G	90146	W9															
UNK147	UG/G	90147	W9															

PROJECT NAME PHA TASK 1 PHASE 11  
 PROJECT MANAGER JJV  
 LAB COORDINATOR JOE VONDRICK

PROJECT NUMBER 84936 0300  
 FIELD GROUP 36-3-1  
 36-3-1RP

SAMPLE ID #

PARAMETERS	UNITS	STORY #	METHOD	3437B	3438A	3438B	3439A	3439B	3440A	3440E	3441A	3441B	3442A	3442B	3442C	3443A	3443B	3443C	3443D
DATE				07/09/87	07/09/87	07/09/87	07/14/87	07/14/87	07/14/87	07/14/87	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87
TIME				08:54	09:53	10:20	07:13	07:27	06:17	08:42	09:53	10:10	07:33	07:56	08:13	06:38	06:53	07:17	07:17

UNK153	UG/G	90153	W9
UNK156	UG/G	90156	W9
UNK157	UG/G	90157	W9
UNK158	UG/G	90158	W9
UNK159	UG/G	90159	W9
UNK162	UG/G	90162	W9
UNK163	UG/G	90163	W9
UNK175	UG/G	90175	W9
UNK178	UG/G	90178	W9
UNK179	UG/G	90179	W9
UNK190	UG/G	90190	W9
UNK193	UG/G	90193	W9
UNK514	UG/G	90514	Q9
UNK519	UG/G	90519	Q9
UNK525	UG/G	90525	Q9
UNK526	UG/G	90526	Q9
UNK529	UG/G	90529	Q9
UNK543	UG/G	90543	Q9
UNK545	UG/G	90545	Q9
UNK544	UG/G	90544	Q9
UNK548	UG/G	90548	Q9
UNK549	UG/G	90549	Q9
UNK551	UG/G	90551	Q9

PROJECT NUMBER B4936 0300  
FIELD GROUP 36-3-1  
36-3-IEP

PROJECT NAME PMA TASK PHASE 11  
PROJECT MANAGER JJA  
LAB COORDINATOR JOE VONDRICK

## SAMPLE ID #

3437B 3438A 3438B 3439A 3439B 3440A 3440B 3441A 3441B 3442A 3442B 3442C 3443A 3443B 3443C

36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1 36-3-1

51 57 58 64 65 71 72 76 76 85 86 89 92 93 96

07/09/87 07/09/87 07/09/87 07/14/87 07/14/87 07/14/87 07/14/87 07/14/87 07/14/87 07/15/87 07/15/87 07/15/87 07/21/87 07/21/87 07/21/87

08:54 09:53 10:20 07:13 07:27 08:17 08:42 09:53 10:10 07:33 07:56 08:13 06:38 06:53 07:17

PARAMETERS STORET # METHOD UNITS

DATE TIME

90552 UC/G  
90558 UC/G  
90559 UC/G  
90561 UC/G  
90562 UC/G  
90563 UC/G  
90565 UC/G  
90567 UC/G  
90569 UC/G  
90570 UC/G  
90572 UC/G  
90574 UC/G  
90575 UC/G  
90576 UC/G  
90578 UC/G  
90579 UC/G  
90581 UC/G  
90583 UC/G  
90584 UC/G  
90586 UC/G  
90587 UC/G  
90588 UC/G  
90591 UC/G

PROJECT NUMBER 84936 0510  
 FIELD GROUP 36-3-1  
 PROJECT NAME ENV TEST 1 PHASE 11  
 PROJECT MANAGER JJA  
 LAR CODED IN THE JOE VONNOICH

PARAMETERS	UNITS	STORET #	METHOD	3437B 36-3-1 51	3438A 36-3-1 5	3438B 36-3-1 58	3439A 36-3-1 64	3439B 36-3-1 65	3440A 36-3-1 71	3440B 36-3-1 72	3441A 36-3-1 78	3441B 36-3-1 79	3442A 36-3-1 85	3442B 36-3-1 86	3443A 36-3-1 92	3443B 36-3-1 93	3443C 36-3-1 94
DATE				07/09/87	07/09/87	07/09/87	07/14/87	07/14/87	07/14/87	07/14/87	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
TIME				08:54	09:53	10:20	07:13	07:27	08:17	08:42	09:53	10:10	07:33	08:13	06:25	06:53	07:11

90592 UC/G  
 90593 Q9  
 90594 UC/G  
 90595 Q9  
 90596 UC/G  
 90597 UC/G  
 90598 UC/G  
 90601 UC/G  
 90603 UC/G  
 90605 UC/G  
 90607 UC/G  
 90608 UC/G  
 90609 UC/G  
 90611 UC/G  
 90612 UC/G  
 90613 UC/G  
 90614 UC/G  
 90615 UC/G  
 90616 UC/G  
 90617 UC/G  
 90618 UC/G  
 90619 UC/G  
 90621 UC/G  
 90622 UC/G  
 90592 Q9  
 90593 Q9  
 90594 Q9  
 90595 Q9  
 90596 Q9  
 90597 Q9  
 90598 Q9  
 90601 Q9  
 90603 Q9  
 90605 Q9  
 90607 Q9  
 90608 Q9  
 90609 Q9  
 90611 Q9  
 90612 Q9  
 90613 Q9  
 90614 Q9  
 90615 Q9  
 90616 Q9  
 90617 Q9  
 90618 Q9  
 90619 Q9  
 90621 Q9  
 90622 Q9

PROJECT NUMBER 84936 0307  
 FIELD GROUP 36-3-1  
 PROJECT NAME PMF TASH 1 PHASE 1  
 PROJECT MANAGER JUV  
 LAB COORDINATOR JOE VONDFICA

SAMPLE D #

STORET #	3437B	3436A	3438B	3439A	3439B	3440A	3441A	3442A	3442B	3443A	3443B	3443C
METHOD	51	57	58	64	65	71	72	78	84	89	93	96
DATE	07/09/87	07/09/87	07/09/87	07/14/87	07/14/87	07/14/87	07/14/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
TIME	08:54	09:53	10:20	07:13	07:12	08:17	08:42	09:53	07:10	07:21	06:53	07:17

UNK623	UG/G	90623
UNK624	UG/G	90624
UNK625	UG/G	90625
UNK626	UG/G	90626
UNK627	UG/G	90627
UNK628	UG/G	90628
UNK629	UG/G	90629
UNK630	UG/G	90630
UNK631	UG/G	90631
UNK632	UG/G	90632
UNK633	UG/G	90633
UNK634	UG/G	90634
UNK635	UG/G	90635
UNK636	UG/G	90636
UNK638	UG/G	90638
UNK639	UG/G	90639
UNK641	UG/G	90641
UNK642	UG/G	90642
UNK643	UG/G	90643
UNK644	UG/G	90644
UNK646	UG/G	90646
UNK648	UG/G	90648
UNK649	UG/G	90649

PROJECT NAME DML TASH I PHASE II  
 PROJECT MANAGER JUV  
 LAB COORDINATOR JCE VONOFICA

PROJECT NUMBER 84936 0300  
 FIELD GROUP 36-3-1  
 36-3-1RP

SAMPLE ID#

PARAMETERS	UNITS	STORET #	METHOD	3437B	3436A	3436B	3439A	3439B	3440A	3440B	3441A	3441B	3442A	3442B	3442C	3443A	3443B	3443C
DATE				07/09/87	07/09/87	07/09/87	07/14/87	07/14/87	07/14/87	07/14/87	07/14/87	07/14/87	07/15/87	07/15/87	07/15/87	07/21/87	07/21/87	07/21/87
TIME				08:54	09:53	10:20	07:13	07:27	08:17	08:42	09:53	10:10	07:33	07:56	08:13	06:38	06:53	07:10

UNK651 UG/G 90651  
 UNK668 UG/G 90668 Q9



PROJECT NUMBER 64936 0300  
FIELD GROUP 36-3-1  
36-3-1PP

PROJECT NAME PMA T&S 1 PHASE II  
PROJECT MANAGER JUV  
LAB COORDINATOR JOE VONDRICK

PARAMETERS	UNITS	STREET #	METHOD	3444A	3444B	3444C	3444D	3445A	3445B	3445C	3445D	3446A	3446B	3446C	3446D	3447A	3447B	3447C
DATE		07/21/87		07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87
TIME		09:28		09:57	10:23	10:23	09:56	06:51	07:32	08:01	07:44	06:52	07:32	07:46	09:26	09:52	10:14	10:47
DBCP (NEMAGON)	UG/G-DRY	98652		<0.100	<0.025	<0.025	<0.100	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BICYCLOHEPTADIENE	UG/G-DRY	98686		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
METHYL ISOBUTYL KETONE	UG/G-DRY	98696		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
DICYCLOPENTADIENE	UG/G-DRY	98651		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
MERCURY	UG/G-DRY	71921		<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
BENZENE	UG/G-DRY	98699		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
TOLUENE	UG/G-DRY	98691		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
ETHYLBENZENE	UG/G-DRY	98688		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
M-XYLENE	UG/G-DRY	98695		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
O-AND/OR P-XYLENE	UG/G-DRY	98700		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
METHYLENE CHLORIDE	UG/G-DRY	98689		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
1,1-DICHLOROETHANE	UG/G-DRY	98789		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
1,1-DICHLOROETHANE	UG/G-DRY	98683		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
TRANS-1,2-DICHLOROETHANE	UG/G-DRY	98687		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
CHLOROFORM	UG/G-DRY	98682		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
1,2-DICHLOROETHANE	UG/G-DRY	98684		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
CARBON TETRACHLORIDE	UG/G-DRY	98680		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
TRICHLOROETHENE	UG/G-DRY	98694		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
1,1,2-TRICHLOROETHANE	UG/G-DRY	98693		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
TETRACHLOROETHENE	UG/G-DRY	98690		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
CHLOROBENZENE	UG/G-DRY	98681		<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
MERCURY, SED	UG/G-DRY	71921		<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070





PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1RP

PROJECT NAME  
PROJECT MANAGER JVA  
LAB COORDINATOR JOE VONDEIC

PHASE II

SAMPLE ID #

PARAMETERS	STORET #	UNITS	METHOD	3444A	3444B	3444C	3444D	3445A	3445B	3445C	3445D	3445E	3446A	3446B	3446C	3446D	3446E	3447A	3447E	3447C
DATE	07/21/87	09:28		36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
TIME	09:57	10:23		100	100	101	103	106	107	108	110	111	112	113	114	115	116	120	121	122
TRANS-1,2-DICHLOROETHANE	98687	UG/G-DRY																		
ETHYLBENZENE	98688	UG/G-DRY																		
METHYLENE CHLORIDE	98689	UG/G-DRY																		
TETRACHLOROETHENE	98690	UG/G-DRY																		
TOLUENE	98691	UG/G-DRY																		
1,1,1-TRICHLOROETHANE	98692	UG/G-DRY																		
1,1,2-TRICHLOROETHANE	98693	UG/G-DRY																		
TRICHLOROETHENE	98694	UG/G-DRY																		
M-XYLENE	98695	UG/G-DRY																		
MIBK	98696	UG/G-DRY																		
DMS	98697	UG/G-DRY																		
BENZENE	98699	UG/G-DRY																		
O-AND/OR P-XYLENE	98700	UG/G-DRY																		
CARBON TETRACHLORIDE	98680	UG/G-DRY																		
CHLOROBENZENE	98681	UG/G-DRY																		
CHLOROFORM	98682	UG/G-DRY																		
1,1-DICHLOROETHANE	98683	UG/G-DRY																		
1,2-DICHLOROETHANE	98684	UG/G-DRY																		
BICYCLOHEPTADIENE	98686	UG/G-DRY																		
DBCP (NEMACON)	98652	UG/G-DRY																		
THIODIGLYCOL	99798	UG/G																		
CHLOROACETIC ACID	97285	UG/G																		
IMPA	97382	UG/G																		

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PROJECT NUMBER 64036 Q000  
FIELD GROUP 36-3-1  
36-3-10P

PROJECT NAME

PROJECT MANAGER

LSE COORDINATOR

FMA TASK

PHASE

LSE COORDINATOR

PARAMETERS	UNITS	3443A	3443B	3444C	3444D	3445A	3445B	3445C	3445D	3446A	3446B	3446C	3446D	3447A	3447B
DATE		07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87	07-21-87
TIME		09:15	06:27	10:23	09:36	06:51	07:50	07:44	07:44	06:52	07:46	09:26	07:46	09:26	07:46
FLUORACETIC ACID	UG/G														
MPA	UG/G														
UNK 007	UG/G														
UNK 034	UG/G														
UNK 039	UG/G														
UNK 047	UG/G														
UNK 058	UG/G														
UNK 075	UG/G														
UNK 086	UG/G														
UNK 095	UG/G														
UNK 102	UG/G														
UNK 108	UG/G														
UNK 111	UG/G														
UNK 112	UG/G														
UNK 114	UG/G														
UNK 116	UG/G														
UNK 121	UG/G														
UNK 124	UG/G														
UNK 141	UG/G														
UNK 143	UG/G														
UNK 144	UG/G														
UNK 146	UG/G														
UNK 147	UG/G														

PROJECT NAME: EML 720  
 PROJECT MANAGER: JIN  
 LAB COORDINATOR: JOE LONOPOLIC

PROJECT NUMBER: 64936 0000  
 FIELD GROUP: 36-3-1  
 36-3-1RP

SAMPLE ID: #

DATE	TIME	PARAMETERS	UNITS	START #	3444A	3444B	3444C	3444D	3445A	3445B	3445C	3445D	3446A	3446B	3446C	3446D	3447A	3447B	3447C
					36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
					99	100	101	102	106	107	108	110	112	113	115	116	120	121	122
					07:21:07	07:21:07	07:21:07	07:21:07	07:22:07	07:23:07	07:23:07	07:23:07	07:23:07	07:23:07	07:23:07	07:23:07	07:23:07	07:23:07	07:23:07
					09:28	09:57	10:22	09:36	06:51	07:32	08:01	07:44	06:52	06:52	07:46	07:26	09:26	07:27	07:47
UNK153		UG/G		90153															
UNK154		UG/G		90154															
UNK157		UG/G		90157															
UNK158		UG/G		90158															
UNK159		UG/G		90159															
UNK162		UG/G		90162															
UNK163		UG/G		90163															
UNK175		UG/G		90175															
UNK178		UG/G		90178															
UNK179		UG/G		90179															
UNK190		UG/G		90190															
UNK193		UG/G		90193															
UNK514		UG/G		90514															
UNK519		UG/G		90519															
UNK525		UG/G		90525															
UNK526		UG/G		90526															
UNK529		UG/G		90529															
UNK543		UG/G		90543															
UNK545		UG/G		90545															
UNK544		UG/G		90544															
UNK548		UG/G		90548															
UNK549		UG/G		90549															
UNK551		UG/G		90551															

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PROJECT NUMBER 64026 0500  
FIELD GROUP 36-3-1  
36-3-1EP

PROJECT NAME FRL TASK 1 PHASE 1  
PROJECT MANAGER JON  
LAE COORDINATOR JOE VONDEIC

PARAMETERS	UNITS	STORET #	METHOD	3444A 36-3-1 99	3444B 36-3-1 100	3444C 36-3-1 101	3444D 36-3-1 103	3445A 36-3-1 106	3445B 36-3-1 107	3445C 36-3-1 108	3445D 36-3-1 110	3445E 36-3-1 111	3445F 36-3-1 112	3445G 36-3-1 116	3445H 36-3-1 120	3445I 36-3-1 122
DATE		07 21:87		07 21:87	07 21:87	07 21:87	07 21:87	07 21:87	07 21:87	07 21:87	07 21:87	07 21:87	07 21:87	07 21:87	07 21:87	07 21:87
TIME		09:28		09:28	09:57	10:23	09:36	06:51	07:32	08:01	07:44	07:44	06:12	07:46	09:26	09:52
UNKS52	UG/G	90552														
UNKS58	UG/G	90558														
UNKS59	UG/G	90559														
UNKS61	UG/G	90561														
UNKS62	UG/G	90562														
UNKS63	UG/G	90563														
UNKS65	UG/G	90565														
UNKS67	UG/G	90567														
UNKS69	UG/G	90569														
UNKS70	UG/G	90570														
UNKS72	UG/G	90572														
UNKS74	UG/G	90574														
UNKS75	UG/G	90575														
UNKS76	UG/G	90576														
UNKS78	UG/G	90578														
UNKS79	UG/G	90579														
UNKS81	UG/G	90581														
UNKS83	UG/G	90583														
UNKS84	UG/G	90584														
UNKS86	UG/G	90586														
UNKS87	UG/G	90587														
UNKS88	UG/G	90588														
UNKS91	UG/G	90591														

UNKS52  
UNKS58  
UNKS59  
UNKS61  
UNKS62  
UNKS63  
UNKS65  
UNKS67  
UNKS69  
UNKS70  
UNKS72  
UNKS74  
UNKS75  
UNKS76  
UNKS78  
UNKS79  
UNKS81  
UNKS83  
UNKS84  
UNKS86  
UNKS87  
UNKS88  
UNKS91

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
PROJECT NAME PMA TASK 1 PHASE 11  
PROJECT MANAGER JJA  
LAB COORDINATOR JOE VONDPICK

## SAMPLE ID #

PARAMETERS	UNITS	STORET #	METHOD	3444A 36-3-1 99	3444B 36-3-1 100	3444C 36-3-1 101	3444X 36-3-1 103	3445A 36-3-1 106	3445B 36-3-1 107	3445C 36-3-1 108	3445D 36-3-1 110	3445E 36-3-1 111	3446A 36-3-1 113	3446B 36-3-1 115	3446C 36-3-1 116	3446D 36-3-1 117	3446E 36-3-1 118	3446F 36-3-1 119	3446G 36-3-1 120	3446H 36-3-1 121	3446I 36-3-1 122
DATE				07:21/87	07:21/87	07:21/87	07:21/87	07:22/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87	07:23/87
TIME				09:28	09:57	10:23	09:36	06:51	07:32	08:01	07:44	07:44	06:52	07:45	07:32	07:26	07:26	07:26	07:26	07:26	07:26
UNK592	UG/G	90592								6000											
UNK594	UG/G	90594																			
UNK595	UG/G	90595																			
UNK596	UG/G	90596																			
UNK597	UG/G	90597																			
UNK598	UG/G	90598																			
UNK601	UG/G	90601																			
UNK603	UG/G	90603																			
UNK605	UG/G	90605																			
UNK607	UG/G	90607																			
UNK608	UG/G	90608																			
UNK609	UG/G	90609																			
UNK611	UG/G	90611																			
UNK612	UG/G	90612																			
UNK613	UG/G	90613																			
UNK614	UG/G	90614																			
UNK615	UG/G	90615																			
UNK616	UG/G	90616																			
UNK617	UG/G	90617																			
UNK618	UG/G	90618																			
UNK619	UG/G	90619																			
UNK621	UG/G	90621																			
UNK622	UG/G	90622																			

PARAMETERS	UNITS	STORY #	3444A	3444B	3444C	3444D	3445A	3445B	3445C	3445D	3446A	3446B	3446C	3446D	3447A	3447B	3447C
DATE			07:21/87	07:21/87	07:21/87	07:21/87	07:22/87	07:23/87	07:23/87	07:23/87	07:27/87	07:27/87	07:27/87	07:27/87	07:27/87	07:27/87	07:27/87
TIME			09:28	09:57	10:23	09:36	06:51	07:32	08:01	07:44	06:52	07:52	07:52	07:52	07:52	07:52	07:52

UNKN623	UG/G	90623	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN624	UG/G	90624	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN625	UG/G	90625	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN626	UG/G	90626	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN627	UG/G	90627	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN628	UG/G	90628	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN629	UG/G	90629	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN630	UG/G	90630	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN631	UG/G	90631	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN632	UG/G	90632	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN633	UG/G	90633	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN634	UG/G	90634	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN635	UG/G	90635	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN636	UG/G	90636	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN638	UG/G	90638	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN639	UG/G	90639	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN641	UG/G	90641	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN642	UG/G	90642	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN643	UG/G	90643	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN644	UG/G	90644	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN646	UG/G	90646	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN648	UG/G	90648	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
UNKN649	UG/G	90649	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09

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PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
PROJECT NAME FRL TEST 1 PHASE 11  
PROJECT MANAGER JUV  
LAB COORDINATOR JOE CONDEICH

PARAMETERS	UNITS	STORET #	METHOD	3444A 36-3-1 99	3444B 36-3-1 100	3444C 36-3-1 101	3444D 36-3-1 102	3444E 36-3-1 103	3444F 36-3-1 104	3444G 36-3-1 105	3444H 36-3-1 106	3444I 36-3-1 107	3444J 36-3-1 108	3444K 36-3-1 109	3444L 36-3-1 110	3444M 36-3-1 111	3444N 36-3-1 112	3444O 36-3-1 113	3444P 36-3-1 114	3444Q 36-3-1 115	3444R 36-3-1 116	3444S 36-3-1 117	3444T 36-3-1 118	3444U 36-3-1 119	3444V 36-3-1 120
DATE TIME				07/21/87 09:28	07/21/87 09:28	07/21/87 10:23	07/21/87 09:36	07/21/87 09:36	07/21/87 06:51	07/21/87 06:51	07/21/87 06:51	07/21/87 07:32	07/21/87 08:01	07/21/87 07:23	07/21/87 07:23	07/21/87 07:44	07/21/87 06:52	07/21/87 07:27	07/21/87 07:27	07/21/87 07:46	07/21/87 09:25	07/21/87 09:52	07/21/87 10:47	3444W 36-3-1 121	3444X 36-3-1 122
UNKN651	UG/G	90651	Q9		2	100	600	2000																	
UNKN668	UG/G	90668	Q9			200	200	200																	





PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
PROJECT NAME 197 TISH - PHASE 11  
PROJECT MANAGER J.J.  
LAB COORDINATOR JOE VANDERLIG

PARAMETERS	UNITS	STORET #	METHOD	3448A 36-3-1 127	3448B 36-3-1 128	3448C 36-3-1 131	3449A 36-3-1 134	3449B 36-3-1 135	3449C 36-3-1 136	SAMPLE ID #	3450A 36-3-1 141	3450B 36-3-1 145	3450C 36-3-1 146	3451A 36-3-1 151	3451B 36-3-1 152	3451C 36-3-1 153	DATE	TIME
DECP (METHAGM)	UG/G-DRY	98652	U9	07/28/87 06:57	07/28/87 07:18	07/28/87 07:25	07/28/87 08:35	07/28/87 09:02	07/28/87 09:30	08/06/87 10:01	08/06/87 10:15	08/06/87 10:55	07/30/87 07:37	07/30/87 08:13	07/30/87 08:50	07/29/87 09:23	07/29/87 09:57	07/29/87 10:23
BICYCLOHEPTADIENE	UG/G-DRY	98656	U9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
METHYL ISOBUTYLAETONE	UG/G-DRY	98696	Z29	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08
DICYCLOPENTADIENE	UG/G-DRY	98651	Z29	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24
MERCURY	UG/G-DRY	71921	E9	0.294	<0.070	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
BENZENE	UG/G-DRY	98699	W9	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
TOLUENE	UG/G-DRY	98691	W9	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096
ETHYLBENZENE	UG/G-DRY	98688	W9	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
M-XYLENE	UG/G-DRY	98695	W9	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053
O-AND/OR P-XYLENE	UG/G-DRY	98700	W9	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086
METHYLENE CHLORIDE	UG/G-DRY	98689	Y9	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
1,1-DICHLOROETHENE	UG/G-DRY	98789	Y9	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,1-DICHLOROETHANE	UG/G-DRY	98683	Y9	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
TRANS-1,2-DICHLOROETHENE	UG/G-DRY	98687	Y9	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
CHLOROFORM	UG/G-DRY	98682	Y9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-DICHLOROETHANE	UG/G-DRY	98684	Y9	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692	Y9	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
CARBON TETRACHLORIDE	UG/G-DRY	98680	Y9	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
TRICHLOROETHENE	UG/G-DRY	98694	Y9	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
1,1,2-TRICHLOROETHANE	UG/G-DRY	98693	Y9	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
TETRACHLOROETHENE	UG/G-DRY	98690	Y9	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
CHLOROBENZENE	UG/G-DRY	98681	Y9	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
MERCURY, SED	UG/G-DRY	71921	V9	0.121	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

PROJECT NUMBER 84936 UG06  
FIELD GROUP 36-2-1  
36-2-1RP

PROJECT NAME PM2 TASK 1 PHASE 11  
PROJECT MANAGER JUI  
LAE COORDINATOR JOE VONDRICK

PARAMETERS	UNITS	STORET #	3448A 36-2-1 127	3448B 36-2-1 128	3448C 36-2-1 131	3449A 36-2-1 134	3449E 36-2-1 135	3449F 36-2-1 136	3450A 36-2-1 141	3450B 36-2-1 145	3450C 36-2-1 146	3451A 36-2-1 148	3451B 36-2-1 152	3451C 36-2-1 153	3452A 36-2-1 155	3452B 36-2-1 156	3452C 36-2-1 162
DATE			07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87	07/26/87
TIME			06:15	07:16	07:25	08:35	09:02	09:30	10:01	11:15	10:57	07:37	07:42	08:30	07:59	08:20	09:23
ALDRIN	UG/G-DRY	98356					<0.94	<0.94				<0.94	<0.94	<0.94			
ATRAZINE	UG/G-DRY	98655					<0.73	<0.73				<0.73	<0.73	<0.73			
CHLORDANE	UG/G-DRY	98361					<1.5	<1.5				<1.5	<1.5	<1.5			
P-CLPHENYLMETH-	UG/G-DRY	98653					<0.25	<0.25				<0.25	<0.25	<0.25			
SULFIDE	UG/G-DRY	98654					<0.35	<0.35				<0.35	<0.35	<0.35			
P-CLPHENYLMETH-	UG/G-DRY	98654					<0.35	<0.35				<0.35	<0.35	<0.35			
SULFOXIDE	UG/G-DRY	98703					<0.29	<0.29				<0.29	<0.29	<0.29			
P-CLPHENYLMETH-	UG/G-DRY	98703					<0.29	<0.29				<0.29	<0.29	<0.29			
SULFONE	UG/G-DRY	98652					<0.33	<0.33				<0.33	<0.33	<0.33			
W-DECP(NEMACON)	UG/G-DRY	98652					<0.33	<0.33				<0.33	<0.33	<0.33			
DICYCLOPENTADIENE	UG/G-DRY	98651					<0.26	<0.26				<0.26	<0.26	<0.26			
DOE, PP	UG/G-DRY	98363					<0.29	<0.29				<0.29	<0.29	<0.29			
DDT, PP	UG/G-DRY	98364					<0.37	<0.37				<0.37	<0.37	<0.37			
DIELDRIN	UG/G-DRY	98365					<0.25	<0.25				<0.25	<0.25	<0.25			
DIMP	UG/G-DRY	98645					<0.50	<0.50				<0.50	<0.50	<0.50			
1,4 DITHIANE	UG/G-DRY	98650					<0.25	<0.25				<0.25	<0.25	<0.25			
DMMP	UG/G-DRY	98657					<1.5	<1.5				<1.5	<1.5	<1.5			
ENDRIN	UG/G-DRY	98369					<0.70	<0.70				<0.70	<0.70	<0.70			
HEXACHLOROCYCLOPENT-	UG/G-DRY	98647					<1.1	<1.1				<1.1	<1.1	<1.1			
ADIENE	UG/G-DRY	98649					<0.33	<0.33				<0.33	<0.33	<0.33			
ISODRIN	UG/G-DRY	98649					<0.33	<0.33				<0.33	<0.33	<0.33			
MALATHION	UG/G-DRY	98648					<0.59	<0.59				<0.59	<0.59	<0.59			
1,4 OXATHIANE	UG/G-DRY	98644					<0.26	<0.26				<0.26	<0.26	<0.26			
ETY*PARATHION	UG/G-DRY	98658					<0.63	<0.63				<0.63	<0.63	<0.63			
SUPONA	UG/G-DRY	98656					<0.49	<0.49				<0.49	<0.49	<0.49			
VAPONA	UG/G-DRY	98646					<0.25	<0.25				<0.25	<0.25	<0.25			
DICYCLOPENTADIENE	UG/G-DRY	98651					<0.25	<0.25				<0.25	<0.25	<0.25			
W9							<0.30	<0.30				<0.30	<0.30	<0.30			

PROJECT NUMBER 84936 0370  
FIELD GROUP 36-3-1  
36-3-1FP

PROJECT NAME FMS TASK 1 PHASE 1  
PROJECT MANAGER JAY  
LAW COORDINATOR JOE CONDELLA

PARAMETERS	UNITS	STORET #	METHOD	34484	34486	34494	34496	34497	34500	34501	34514	34523	34526	34534
DATE				07:28:57	07:28:57	07:28:57	07:28:57	07:28:57	07:06:57	07:06:57	07:30:57	07:29:57	07:29:57	07:29:57
TIME				06:57	07:18	07:25	08:35	09:02	09:20	10:01	11:15	10:57	06:20	19:23

TRANS-1,2-DICHLOROETHENE	UG/G-DRY	98687												
ETHYLBENZENE	UG/G-DRY	98688												
METHYLENE CHLORIDE	UG/G-DRY	98689												
TETRACHLOROETHENE	UG/G-DRY	98690												
TOLUENE	UG/G-DRY	98691												
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692												
1,1,2-TRICHLOROETHANE	UG/G-DRY	98693												
TRICHLOROETHENE	UG/G-DRY	98694												
M-XYLENE	UG/G-DRY	98695												
MIBK	UG/G-DRY	98696												
DMS	UG/G-DRY	98697												
BENZENE	UG/G-DRY	98699												
O-AND/OR P-XYLENE	UG/G-DRY	98700												
CARBON TETRACHLORIDE	UG/G-DRY	98680												
CHLOROBENZENE	UG/G-DRY	98681												
CHLOROFORM	UG/G-DRY	98682												
1,1-DICHLOROETHANE	UG/G-DRY	98683												
1,2-DICHLOROETHANE	UG/G-DRY	98684												
ETHYLBENZENE	UG/G-DRY	98686												
DBCP (HEXAGON)	UG/G-DRY	98652												
THIODIGLYCOL	UG/G-DRY	99798												
CHLOROACETIC ACID	UG/G	97285												
IMPA	UG/G	97382												



PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1RP  
PROJECT NAME FMT TSP - PHASE 1  
PROJECT MANAGER JVA  
LAB COORDINATOR JVE CONEPICH

## SAMPLE LIST

PARAMETERS	UNITS	STORET #	METHOD	3448A 36-3-1 127	3448B 36-3-1 128	3448C 36-3-1 131	3449A 36-3-1 134	3449B 36-3-1 135	3449C 36-3-1 136	3450A 36-3-1 143	3450B 36-3-1 145	3450C 36-3-1 146	3451A 36-3-1 148	3451B 36-3-1 150	3451C 36-3-1 153	3452A 36-3-1 155	3452B 36-3-1 156	3452C 36-3-1 162
DATE				07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87	07:28/87
TIME				06:57	07:18	07:25	06:35	09:02	09:30	10:00	11:15	10:57	07:30/87	07:34/87	07:39/87	07:26/87	07:29/87	07:29/87
UNAK153	UG/G	90153	M9															
UNAK156	UG/G	90156	M9															
UNAK157	UG/G	90157	M9															
UNAK158	UG/G	90158	M9															
UNAK159	UG/G	90159	M9															
UNAK162	UG/G	90162	M9															
UNAK163	UG/G	90163	M9															
UNAK175	UG/G	90175	M9															
UNAK178	UG/G	90178	M9															
UNAK179	UG/G	90179	M9															
UNAK180	UG/G	90180	M9															
UNAK193	UG/G	90193	M9															
UNAK514	UG/G	90514	M9															
UNAK519	UG/G	90519	Q9															
UNAK525	UG/G	90525	Q9															
UNAK526	UG/G	90526	Q9															
UNAK529	UG/G	90529	Q9															
UNAK543	UG/G	90543	Q9															
UNAK545	UG/G	90545	Q9															
UNAK544	UG/G	90544	Q9															
UNAK548	UG/G	90548	Q9															
UNAK549	UG/G	90549	Q9															
UNAK551	UG/G	90551	Q9															

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PROJECT NUMBER 84936 0500  
FIELD GROUP 36-3-1  
36-3-1RP

PROJECT NAME	PM TASK	PHASE
PROJECT MANAGER	JUL	
LAE COORDINATOR	JUL	VONDECK

[illegible]

UNK552	UG/G	90553
UNK558	UG/G	90556
UNK559	UG/G	90559
UNK561	UG/G	90561
UNK562	UG/G	90562
UNK563	UG/G	90563
UNK565	UG/G	90565
UNK567	UG/G	90567
UNK569	UG/G	90569
UNK570	UG/G	90570
UNK572	UG/G	90572
UNK574	UG/G	90574
UNK575	UG/G	90575
UNK576	UG/G	90576
UNK578	UG/G	90578
UNK579	UG/G	90579
UNK581	UG/G	90581
UNK583	UG/G	90583
UNK584	UG/G	90584
UNK586	UG/G	90586
UNK587	UG/G	90587
UNK588	UG/G	90588
UNK571	UG/G	90591

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1PP  
PROJECT NAME ENE TASK 1 PHASE 1  
PROJECT MANAGER JJA  
LAB COORDINATOR JOE LUNDSTROM

PARAMETERS	UNITS	STORET #	METHOD	DATE TIME	3448A 36-3-1 127	344E5 36-3-1 128	3448Y 36-3-1 131	3449A 36-3-1 134	3449B 36-3-1 135	3449Y 36-3-1 138	3450A 36-3-1 141	3450B 36-3-1 143	3450C 36-3-1 146	3451A 36-3-1 149	3451B 36-3-1 152	3451C 36-3-1 155	3452A 36-3-1 158	3452B 36-3-1 161	3452C 36-3-1 164	DATE TIME
UNK592	UG/G	90592		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK594	UG/G	90594		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK595	UG/G	90595		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK596	UG/G	90596		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK597	UG/G	90597		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK598	UG/G	90598		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK601	UG/G	90601		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK603	UG/G	90603		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK605	UG/G	90605		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK607	UG/G	90607		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK608	UG/G	90608		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK609	UG/G	90609		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK611	UG/G	90611		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK612	UG/G	90612		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK613	UG/G	90613		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK614	UG/G	90614		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK615	UG/G	90615		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK616	UG/G	90616		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK617	UG/G	90617		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK618	UG/G	90618		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK619	UG/G	90619		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK621	UG/G	90621		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87
UNK622	UG/G	90622		07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87	07:28 87

UNK605  
UNK607

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07:29 87

09:23



# ENVIRONMENTAL SCIENCE & ENGINEERING DE JG RE

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PROJECT NUMBER 84936 0200  
FIELD GROUP 36-3-1  
36-3-1FP  
PROJECT NAME FPL TESA  
PROJECT MANAGER JON  
LAB COORDINATOR JOE LONDFICA

PARAMETERS	UNITS	STORET #	METHOD	3448A	3448B	3448X	3449A	3449B	3449X	3449E	3449F	3449G	3449H	3449I	3449J	3449K	3449L	3449M	3449N	3449O	3449P	3449Q	3449R	3449S	3449T	3449U	3449V	3449W	3449X	3449Y	3449Z	
DATE				07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	
TIME				06:57	07:18	07:25	08:35	09:02	09:30	09:57	10:01	10:57	11:15	11:42	12:19	12:56	13:33	14:10	14:47	15:24	16:01	16:38	17:15	17:52	18:29	19:06	19:43	20:20	20:57	21:34	22:11	
UNK623	UG/G	90623	Q9																													
UNK624	UG/G	90624	Q9																													
UNK625	UG/G	90625	Q9																													
UNK626	UG/G	90626	Q9																													
UNK627	UG/G	90627	Q9																													
UNK628	UG/G	90628	Q9																													
UNK629	UG/G	90629	Q9																													
UNK630	UG/G	90630	Q9																													
UNK631	UG/G	90631	Q9																													
UNK632	UG/G	90632	Q9																													
UNK633	UG/G	90633	Q9																													
UNK634	UG/G	90634	Q9																													
UNK635	UG/G	90635	Q9																													
UNK636	UG/G	90636	Q9																													
UNK638	UG/G	90638	Q9																													
UNK639	UG/G	90639	Q9																													
UNK641	UG/G	90641	Q9																													
UNK642	UG/G	90642	Q9																													
UNK643	UG/G	90643	Q9																													
UNK644	UG/G	90644	Q9																													
UNK646	UG/G	90646	Q9																													
UNK648	UG/G	90648	Q9																													
UNK649	UG/G	90649	Q9																													

ENVIRONMENTAL SCIENCE & ENGINEERING 05 '09 EE

PROJECT NUMBER 84936 0300  
 FIELD GROUP 36-3-1  
 PROJECT NAME ERM TASK 1 PHASE 11  
 PROJECT MANAGER JJA  
 LAB COORDINATOR JOE VONDRICK

PARAMETERS	UNITS	STORET #	METHCO	3448A	3448B	3448C	3449A	3449B	3449C	3450A	3450B	3450C	3451A	3451B	3451C	3452A	3452B	3452C	3453A	3453B	3453C
DATE				07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87
TIME				06:57	07:18	07:25	08:35	09:02	09:30	10:00	11:15	10:57	07:43	07:44	08:30	07:59	08:20	08:20	08:20	08:20	08:20

UNKN651 UC/G  
 UNKN658 UC/G









ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT NUMBER 84936 0310  
FIELD GROUP 36-3-1  
36-3-1PP

PROJECT NAME  
PROJECT MANAGER  
LIFE COORDINATOR JOE VONDRICA

PARAMETERS	STORET #	UNITS	DATE	TIME	34544	34546	3454C	34564	34566	34568	34572	34574	34576	34582	34584	34586
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TIME	36-3-1		09:45	07:12	07:12	07:12	07:12	07:12	07:12	07:12	07:12	07:12	07:12	07:12	07:12	07:12
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UNK146	97401	UG/G														
UNK147	97402	UG/G														

# ENVIRONMENTAL SCIENCE & ENGINEERING 05 09 EE

PROJECT NUPEEF 84936 0500  
FIELD GROUP 36-3-1  
PROJECT NAME 84936 0500  
PROJECT MANAGER JUA  
LAB COORDINATOR JOE CONFLICT

PARAMETERS	UNITS	STORET #	3453A 36-3-1 166	3454A 36-3-1 169	3454B 36-3-1 170	3454C 36-3-1 171	3454D 36-3-1 172	3454E 36-3-1 173	3454F 36-3-1 174	3454G 36-3-1 175	3454H 36-3-1 176	3454I 36-3-1 177	3454J 36-3-1 178	3454K 36-3-1 179	3454L 36-3-1 180	3454M 36-3-1 181	3454N 36-3-1 182	3454O 36-3-1 183	3454P 36-3-1 184	3454Q 36-3-1 185	3454R 36-3-1 186	3454S 36-3-1 187	3454T 36-3-1 188	3454U 36-3-1 189	3454V 36-3-1 190	3454W 36-3-1 191	3454X 36-3-1 192	3454Y 36-3-1 193	3454Z 36-3-1 194	3454AA 36-3-1 195	3454AB 36-3-1 196	3454AC 36-3-1 197	3454AD 36-3-1 198	3454AE 36-3-1 199	3454AF 36-3-1 200	3454AG 36-3-1 201	3454AH 36-3-1 202	3454AI 36-3-1 203	3454AJ 36-3-1 204	3454AK 36-3-1 205	3454AL 36-3-1 206	3454AM 36-3-1 207	3454AN 36-3-1 208	3454AO 36-3-1 209	3454AP 36-3-1 210	3454AQ 36-3-1 211	3454AR 36-3-1 212	3454AS 36-3-1 213	3454AT 36-3-1 214	3454AU 36-3-1 215	3454AV 36-3-1 216	3454AW 36-3-1 217	3454AX 36-3-1 218	3454AY 36-3-1 219	3454AZ 36-3-1 220	3454BA 36-3-1 221	3454BB 36-3-1 222	3454BC 36-3-1 223	3454BD 36-3-1 224	3454BE 36-3-1 225	3454BF 36-3-1 226	3454BG 36-3-1 227	3454BH 36-3-1 228	3454BI 36-3-1 229	3454BJ 36-3-1 230	3454BK 36-3-1 231	3454BL 36-3-1 232	3454BM 36-3-1 233	3454BN 36-3-1 234	3454BO 36-3-1 235	3454BP 36-3-1 236	3454BQ 36-3-1 237	3454BR 36-3-1 238	3454BS 36-3-1 239	3454BT 36-3-1 240	3454BU 36-3-1 241	3454BV 36-3-1 242	3454BW 36-3-1 243	3454BX 36-3-1 244	3454BY 36-3-1 245	3454BZ 36-3-1 246	3454CA 36-3-1 247	3454CB 36-3-1 248	3454CC 36-3-1 249	3454CD 36-3-1 250	3454CE 36-3-1 251	3454CF 36-3-1 252	3454CG 36-3-1 253	3454CH 36-3-1 254	3454CI 36-3-1 255	3454CJ 36-3-1 256	3454CK 36-3-1 257	3454CL 36-3-1 258	3454CM 36-3-1 259	3454CN 36-3-1 260	3454CO 36-3-1 261	3454CP 36-3-1 262	3454CQ 36-3-1 263	3454CR 36-3-1 264	3454CS 36-3-1 265	3454CT 36-3-1 266	3454CU 36-3-1 267	3454CV 36-3-1 268	3454CW 36-3-1 269	3454CX 36-3-1 270	3454CY 36-3-1 271	3454CZ 36-3-1 272	3454DA 36-3-1 273	3454DB 36-3-1 274	3454DC 36-3-1 275	3454DD 36-3-1 276	3454DE 36-3-1 277	3454DF 36-3-1 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36-3-1 445	3454JR 36-3-1 446	3454JS 36-3-1 447	3454JT 36-3-1 448	3454JU 36-3-1 449	3454JV 36-3-1 450	3454JW 36-3-1 451	3454JX 36-3-1 452	3454JY 36-3-1 453	3454JZ 36-3-1 454	3454KA 36-3-1 455	3454KB 36-3-1 456	3454KC 36-3-1 457	3454KD 36-3-1 458	3454KE 36-3-1 459	3454KF 36-3-1 460	3454KG 36-3-1 461	3454KH 36-3-1 462	3454KI 36-3-1 463	3454KJ 36-3-1 464	3454KK 36-3-1 465	3454KL 36-3-1 466	3454KM 36-3-1 467	3454KN 36-3-1 468	3454KO 36-3-1 469	3454KP 36-3-1 470	3454KQ 36-3-1 471	3454KR 36-3-1 472	3454KS 36-3-1 473	3454KT 36-3-1 474	3454KU 36-3-1 475	3454KV 36-3-1 476	3454KW 36-3-1 477	3454KX 36-3-1 478	3454KY 36-3-1 479	3454KZ 36-3-1 480	3454LA 36-3-1 481	3454LB 36-3-1 482	3454LC 36-3-1 483	3454LD 36-3-1 484	3454LE 36-3-1 485	3454LF 36-3-1 486	3454LG 36-3-1 487	3454LH 36-3-1 488	3454LI 36-3-1 489	3454LJ 36-3-1 490	3454LK 36-3-1 491	3454LL 36-3-1 492	3454LM 36-3-1 493	3454LN 36-3-1 494	3454LO 36-3-1 495	3454LP 36-3-1 496	3454LQ 36-3-1 497	3454LR 36-3-1 498	3454LS 36-3-1 499	3454LT 36-3-1 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36-3-1 556	3454NZ 36-3-1 557	3454OA 36-3-1 558	3454OB 36-3-1 559	3454OC 36-3-1 560	3454OD 36-3-1 561	3454OE 36-3-1 562	3454OF 36-3-1 563	3454OG 36-3-1 564	3454OH 36-3-1 565	3454OI 36-3-1 566	3454OJ 36-3-1 567	3454OK 36-3-1 568	3454OL 36-3-1 569	3454OM 36-3-1 570	3454ON 36-3-1 571	3454OO 36-3-1 572	3454OP 36-3-1 573	3454OQ 36-3-1 574	3454OR 36-3-1 575	3454OS 36-3-1 576	3454OT 36-3-1 577	3454OU 36-3-1 578	3454OV 36-3-1 579	3454OW 36-3-1 580	3454OX 36-3-1 581	3454OY 36-3-1 582	3454OZ 36-3-1 583	3454PA 36-3-1 584	3454PB 36-3-1 585	3454PC 36-3-1 586	3454PD 36-3-1 587	3454PE 36-3-1 588	3454PF 36-3-1 589	3454PG 36-3-1 590	3454PH 36-3-1 591	3454PI 36-3-1 592	3454PJ 36-3-1 593	3454PK 36-3-1 594	3454PL 36-3-1 595	3454PM 36-3-1 596	3454PN 36-3-1 597	3454PO 36-3-1 598	3454PP 36-3-1 599	3454PQ 36-3-1 600	3454PR 36-3-1 601	3454PS 36-3-1 602	3454PT 36-3-1 603	3454PU 36-3-1 604	3454PV 36-3-1 605	3454PW 36-3-1 606	3454PX 36-3-1 607	3454PY 36-3-1 608	3454PZ 36-3-1 609	3454QA 36-3-1 610	3454QB 36-3-1 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36-3-1 667	3454SG 36-3-1 668	3454SH 36-3-1 669	3454SI 36-3-1 670	3454SJ 36-3-1 671	3454SK 36-3-1 672	3454SL 36-3-1 673	3454SM 36-3-1 674	3454SN 36-3-1 675	3454SO 36-3-1 676	3454SP 36-3-1 677	3454SQ 36-3-1 678	3454SR 36-3-1 679	3454SS 36-3-1 680	3454ST 36-3-1 681	3454SU 36-3-1 682	3454SV 36-3-1 683	3454SW 36-3-1 684	3454SX 36-3-1 685	3454SY 36-3-1 686	3454SZ 36-3-1 687	3454TA 36-3-1 688	3454TB 36-3-1 689	3454TC 36-3-1 690	3454TD 36-3-1 691	3454TE 36-3-1 692	3454TF 36-3-1 693	3454TG 36-3-
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ENVIRONMENTAL SCIENCE & ENGINEERING

PAGE 2

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1PP  
PROJECT NAME ENV TASK 1 PHASE 1  
PROJECT MANAGER JG  
LAB CODED NAME JEE KONDEICK

PARAMETERS	UNITS	STORET #	METHOD	3453X	3454A	3454B	3454C	3456A	3456B	3456C	3457A	3457C	3457D	3458A	3458B	3458C	3458D	3458E
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UNK572	UG/G	90572																
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UNK583	UG/G	90583																
UNK584	UG/G	90584																
UNK586	UG/G	90586																
UNK587	UG/G	90587																
UNK588	UG/G	90588																
UNK591	UG/G	90591																

SAMPLE ID #

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166	169	170	171	176	177	180	181	182	183	184	185	186	187	188	189

07:29/87	08:03/87	08:03/87	08:03/87	08:04/87	08:04/87	08:04/87	08:05/87	08:05/87	08:05/87	08:06/87	08:06/87	08:06/87	08:06/87	08:06/87	08:06/87
09:45	07:12	07:30	08:10	07:06	07:58	08:11	09:54	07:14	08:12	07:42	08:22	07:02	07:27	07:54	07:54

PARAMETERS

DATE

TIME

UNK592	90592	UG/G	2
UNK594	90594	UG/G	4
UNK595	90595	UG/G	2
UNK596	90596	UG/G	0.8
UNK597	90597	UG/G	10
UNK598	90598	UG/G	60
UNK601	90601	UG/G	20
UNK603	90603	UG/G	20
UNK605	90605	UG/G	20
UNK607	90607	UG/G	20
UNK608	90608	UG/G	20
UNK609	90609	UG/G	20
UNK611	90611	UG/G	10
UNK612	90612	UG/G	100
UNK613	90613	UG/G	8
UNK614	90614	UG/G	20
UNK615	90615	UG/G	300
UNK616	90616	UG/G	10
UNK617	90617	UG/G	50
UNK618	90618	UG/G	50
UNK619	90619	UG/G	50
UNK621	90621	UG/G	50
UNK622	90622	UG/G	50

7. 3. 3

PROJECT NUMBER	PROJECT NAME	PM TST 1 PRICE
64936-0300	PROJECT MANAGER	
36-3-1	PROJECT MANAGER	
36-3-1PP	LAS COORDINATOR	THE JENSEN

[illegible]



PROJECT NUMBER 84936 0310  
FIELD GROUP 36-3-1  
36-3-1PP  
PROJECT NAME FWA TSS  
PROJECT MANAGER J. J.  
LAB COORDINATOR JEE VONDERIC

SAMPLE ID #

PARAMETERS	UNITS	STORET #	METHOD	34582 36-3-1 196
DATE				08/06/87
TIME				08:49
SAMPLE TYPE		71999	SC	
SITE TYPE		0	BORE	
SAMPLE DEPTH		99759	0	
FT		99756A	13.0	
SAMPLING TECHNIQUE		72005	S	
INSTALLATION CODE		99720	PA	
SAMPLE		0		
MOISTURE		70320	18.9	
NET WT		1		
HEXACHLOROCYCLOPENT-		98647	<0.003	
ADIENE UG/G-DRY		SS9A		
ALDRIN, SED		98356	<0.182	
UG/G- DRY		SS9A		
ISODRIN		98649	0.021	
UG/G-DRY		SS9A		
DOE, PP'		98363	<0.001	
UG/G-DRY		SS9A		
DIELDRIN		98365	<0.121	
UG/G-DRY		SS9A		
ENDRIN		98369	0.534	
UG/G-DRY		SS9A		
DOT, PP'		98364	<0.002	
UG/G-DRY		SS9A		
CHLORDANE, SED		98361	<0.111	
UG/G- DRY		SS9A		
DIMP		98645	NA	
UG/G-DRY		TT9		
DMMP		98657	NA	
UG/G-DRY		TT9		
DMDS		98697	<0.692	
UG/G-DRY		UU9		
1,4 OXATHIANE		98644	<0.856	
UG/G-DRY		UU9		
1,4 DITHIANE		98650	<0.571	
UG/G- DRY		UU9		
P-CLPHENYLMETHY-		98653	<1.08	
SULFIDE UG/G-DRY		UU9		
BENZOTHAZOLE		97302	<1.08	
UG/G		UU9		
P-CLPHENYLMETHY-		98654	<2.25	
SULFOIDE UG/G-DRY		UU9		
P-CLPHENYLMETHY-		98703	<2.37	
SULTONE UG/G-DRY		UU9		

PROJECT NUMBER 8493-0300  
 FIELD GROUP 36-3-1  
 PROJECT NAME FMA TASK 1 PHASE  
 PROJECT MANAGER J.J.  
 LAB COORDINATOR JOE LONGFICO

SAMPLE ID #

PARAMETERS	STREET #	UNITS	METHOD	34582
	36-3-1		196	
DATE				08 06 85
TIME				08:49
DBCP (NEMAGON)	9852			15.5
UG/G-DRY	U9			
BICYCLOHEPTADIENE	98684			<5.06
UG/G-DRY	Z9			
METHYLISOBUTYLNITONE	98696			<5.24
UG/G-DRY	Z9			
DICYCLOPENTADIENE	98651			<5.12
UG/G-DRY	Z9			
MERCURY	71921			
UG/G- DRY	E9			
BENZENE	98699			<0.162
UG/G-DRY	W9			
TOLUENE	98691			4.99
UG/G-DRY	W9			
1,1-DIMETHYLBENZENE	98688			<0.086
UG/G-DRY	W9			
m-XYLENE	98695			<0.106
UG/G-DRY	W9			
O-AND/OR P-XYLENE	98700			<0.172
UG/G-DRY	W9			
METHYLENE CHLORIDE	98689			<0.30
UG/G-DRY	Y9			
1,1-DICHLOROETHENE	98789			<0.24
UG/G-DRY	Y9			
1,1-DICHLOROETHANE	98683			<0.26
UG/G-DRY	Y9			
TRANS-1,2-DICHLOROET	98687			<0.30
HENE	Y9			
UG/G-DRY	Y9			
CHLOROFORM	98682			<0.20
UG/G-DRY	Y9			
1,2-DICHLOROETHANE	98684			<0.16
UG/G-DRY	Y9			
1,1,1-TRICHLORO-	98692			<0.24
ETHANE	Y9			
UG/G-DRY	Y9			
CARBON TETRACHLORIDE	98680			<0.24
UG/G-DRY	Y9			
TRICHLOROETHENE	98694			<0.16
UG/G-DRY	Y9			
1,1,2-TRICHLORO-	98693			<0.24
ETHANE	Y9			
UG/G-DRY	Y9			
TETRACHLOROETHENE	98690			<0.24
UG/G-DRY	Y9			
CHLOROBENZENE	98681			<0.36
UG/G-DRY	Y9			
MERCURY, SED	71921			
UG/G-DRY	V9			

PROJECT NUMBER 84936 0310  
 FIELD GROUP 36-3-1  
 36-3-1RP  
 PROJECT NAME EPA TASK - PHASE 1  
 PROJECT MANAGER JLY  
 LAB COORDINATOR JOE VONDRICK

SAMPLE ID #

PARAMETERS STORET #  
 UNITS METHOD  
 34562  
 36-3-1  
 196

DATE 08/06/88  
 TIME 08:49

ALDRIN	UG/G-DRY	98356
ATRAZINE	UG/G-DRY	98655
CHLORDANE	UG/G-DRY	98361
P-CLPHENYL METHY-	UG/G-DRY	98653
SULFIDE	UG/G-DRY	98654
P-CLPHENYL METHY-	UG/G-DRY	98654
SULFIDE	UG/G-DRY	98703
P-CLPHENYL METHY-	UG/G-DRY	98652
SULFONE	UG/G-DRY	98651
DBCP (NEMAGON)	UG/G-DRY	98363
DICYCLOPENTADIENE	UG/G-DRY	98364
DDE, PP'	UG/G-DRY	98365
DDT, PP'	UG/G-DRY	98645
DIELDRIN	UG/G-DRY	98650
DIMP	UG/G-DRY	98657
1,4 DITHIANE	UG/G-DRY	98369
DMMP	UG/G-DRY	98647
ENDRIN	UG/G-DRY	98649
HEXACHLOROCYCLOPENT-	UG/G-DRY	98648
ADIENE	UG/G-DRY	98644
ISODRIN	UG/G-DRY	98658
MALATHION	UG/G-DRY	98656
1,4 OXATHIANE	UG/G-DRY	98646
ETY'PARATHION	UG/G-DRY	98651
SUPONA	UG/G-DRY	
VAPONA	UG/G-DRY	
DICYCLOPENTADIENE	UG/G-DRY	

PROJECT NAME: BKA TESH 1 PHASE 11  
 PROJECT MANAGER: JUV  
 LAB COORDINATOR: JOE VONDEICK

PROJECT NUMBER: 84936 0300  
 FIELD GROUP: 36-3-1  
 36-3-1FP

SAMPLE 11 \*

PARAMETERS STORET # UNITS  
 34582 36-3-1  
 196

DATE 08/06/87  
 TIME 08:49

TRANS-1,2-DICHLOROETHENE	UG/G-DRY	98657 M9
ETHYLBENZENE	UG/G-DRY	98658 M9
METHYLENE CHLORIDE	UG/G-DRY	98659 M9
TETRACHLOROETHENE	UG/G-DRY	98690 M9
TOLUENE	UG/G-DRY	98691 M9
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692 M9
1,1,2-TRICHLOROETHANE	UG/G-DRY	98693 M9
TRICHLOROETHENE	UG/G-DRY	98694 M9
m-XYLENE	UG/G-DRY	98695 M9
MIBK	UG/G-DRY	98696 M9
DMS	UG/G-DRY	98697 M9
BENZENE	UG/G-DRY	98699 M9
o-AND/OR p-XYLENE	UG/G-DRY	98700 M9
CARBON TETRACHLORIDE	UG/G-DRY	98680 M9
CHLOROBENZENE	UG/G-DRY	98681 M9
CHLOROFORM	UG/G-DRY	98682 M9
1,1-DICHLOROETHANE	UG/G-DRY	98683 M9
1,2-DICHLOROETHANE	UG/G-DRY	98684 M9
BICYCLOHEPTADIENE	UG/G-DRY	98686 M9
DBCP (NEMAGON)	UG/G-DRY	98652 M9
THIODIGLYCOL	UG/G	99798 M9
CHLOROACETIC ACID	UG/G	97285 M9
IMPA	UG/G	97382 M9
		AA49



PROJECT NUMBER 84926 0300  
FIELD GROUP 36-3-1  
36-3-1PP

PROJECT NAME PML TASH - PHASE II  
PROJECT MANAGER JUI  
LAB COORDINATOR JOE VONDRIC

SAMPLE ID #

PARAMETERS STORET # UNITS  
34582  
36-3-1  
196

DATE 06/87  
TIME 06:49

PARAMETERS	STORET #	UNITS
FLUOROACETIC ACID	97381	UG/G
MPA	97383	UG/G
UNK007	90007	UG/G
UNK034	90034	UG/G
UNK039	90039	UG/G
UNK047	90047	UG/G
UNK058	90058	UG/G
UNK075	90075	UG/G
UNK086	90086	UG/G
UNK095	90095	UG/G
UNK102	90102	UG/G
UNK108	90108	UG/G
UNK111	90111	UG/G
UNK112	90112	UG/G
UNK114	90114	UG/G
UNK116	90116	UG/G
UNK121	90121	UG/G
UNK124	90124	UG/G
UNK141	90141	UG/G
UNK143	90143	UG/G
UNK144	90144	UG/G
UNK146	90146	UG/G
UNK147	90147	UG/G

PROJECT NUMBER 84936 0300  
FIELD GROUP 36-3-1  
36-3-1RP  
PROJECT NAME FWA TASH 1 P-2EE 1  
PROJECT MANAGER J.J.  
LAB COORDINATOR J.E. CONDEICK

SAMPLE ID #

34582  
36-3-1  
196

08:06:87  
08:49

PARAMETERS  
UNITS

DATE  
TIME

UNK153	UG/G	90153	W9
UNK156	UG/G	90156	W9
UNK157	UG/G	90157	W9
UNK158	UG/G	90158	W9
UNK159	UG/G	90159	W9
UNK162	UG/G	90162	W9
UNK163	UG/G	90163	W9
UNK175	UG/G	90175	W9
UNK178	UG/G	90178	W9
UNK179	UG/G	90179	W9
UNK190	UG/G	90190	W9
UNK193	UG/G	90193	W9
UNK514	UG/G	90514	Q9
UNK519	UG/G	90519	Q9
UNK525	UG/G	90525	Q9
UNK526	UG/G	90526	Q9
UNK529	UG/G	90529	Q9
UNK543	UG/G	90543	Q9
UNK545	UG/G	90545	Q9
UNK544	UG/G	90544	Q9
UNK548	UG/G	90548	Q9
UNK549	UG/G	90549	Q9
UNK551	UG/G	90551	Q9

PROJECT NUMBER 84936 0500  
FIELD GROUP 36-3-1  
36-3-1FP  
PROJECT NAME FMA TASK 1 PHASE 1  
PROJECT MANAGER JJS  
LAB COORDINATOR JOE VONDEICK

SAMPLE ID #

34582  
36-3-1  
196

08/06/87  
08:49

PARAMETERS	STORET #	UNITS	METHOD
DATE			
TIME			
UNK552	90552	UG/G	Q9
UNK558	90556	UG/G	Q9
UNK559	90559	UG/G	Q9
UNK561	90561	UG/G	Q9
UNK562	90562	UG/G	Q9
UNK563	90563	UG/G	Q9
UNK565	90565	UG/G	Q9
UNK567	90567	UG/G	Q9
UNK569	90569	UG/G	Q9
UNK570	90570	UG/G	Q9
UNK572	90572	UG/G	Q9
UNK574	90574	UG/G	Q9
UNK575	90575	UG/G	Q9
UNK576	90576	UG/G	Q9
UNK578	90578	UG/G	Q9
UNK579	90579	UG/G	Q9
UNK581	90581	UG/G	Q9
UNK583	90583	UG/G	Q9
UNK584	90584	UG/G	Q9
UNK586	90586	UG/G	Q9
UNK587	90587	UG/G	Q9
UNK588	90588	UG/G	Q9
UNK591	90591	UG/G	Q9

PROJECT NUMBER 84936 0300 PROJECT NAME PM TSP I PHASE I  
FIELD GROUP 36-3-1 PROJECT MANAGER J.J. LAE COORDINATOR JOE MONDRICK

SAMPLE 10#

PARAMETERS STORET # UNITS  
3458Z 36-3-1  
196

DATE TIME 08 06/87 08:49

UNK592	90592	UG/G
UNK594	90594	UG/G
UNK595	90595	UG/G
UNK596	90596	UG/G
UNK597	90597	UG/G
UNK598	90598	UG/G
UNK601	90601	UG/G
UNK603	90603	UG/G
UNK605	90605	UG/G
UNK607	90607	UG/G
UNK608	90608	UG/G
UNK609	90609	UG/G
UNK611	90611	UG/G
UNK612	90612	UG/G
UNK613	90613	UG/G
UNK614	90614	UG/G
UNK615	90615	UG/G
UNK616	90616	UG/G
UNK617	90617	UG/G
UNK618	90618	UG/G
UNK619	90619	UG/G
UNK621	90621	UG/G
UNK622	90622	UG/G

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PROJECT NUMBER 84936 0300 PROJECT NAME FWA TANK 1 PHASE 1  
FIELD GROUP 36-3-1 PROJECT MANAGER JIN  
36-3-1PP LAE COORDINATOR JOE CONDRICK

SAMPLE ID #

3458Z

36-3-1

196

08 06/87

08:49

PARAMETERS STORET # UNITS

DATE TIME

UNK623	90623	UC/G
UNK624	90624	UC/G
UNK625	90625	UC/G
UNK626	90626	UC/G
UNK627	90627	UC/G
UNK628	90628	UC/G
UNK629	90629	UC/G
UNK630	90630	UC/G
UNK631	90631	UC/G
UNK632	90632	UC/G
UNK633	90633	UC/G
UNK634	90634	UC/G
UNK635	90635	UC/G
UNK636	90636	UC/G
UNK638	90638	UC/G
UNK639	90639	UC/G
UNK641	90641	UC/G
UNK642	90642	UC/G
UNK643	90643	UC/G
UNK644	90644	UC/G
UNK646	90646	UC/G
UNK648	90648	UC/G
UNK649	90649	UC/G

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PROJECT NAME RMA TASK 1 PHASE 11  
 PROJECT MANAGER JJV  
 LAB COORDINATOR JOE VONDRICKA

PROJECT NUMBER 84936 0300  
 FIELD GROUP 36-3-1  
 36-3-1RP

SAMPLE 11/18

PARAMETERS 34582  
 36-3-1  
 STORET # 196  
 METHOD

DATE 08/06/87  
 TIME 08:49

UNK 651 90651  
 UC/G Q9  
 UNK 668 90668  
 UC/G Q9

**B-61**

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PROJECT NUMBER 84936 0500 PROJECT NAME RMA TASK 1  
FIELD GROUP TIME PROJECT MANAGER  
ALL LAB COORDINATOR JOE VONDRIKA

PARAMETERS	UNITS	STORET #	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME
DATE			07/15/87	07/23/87	07/28/87	08/04/87	07/15/87	07/23/87	07/28/87	08/05/87	07/30/87	08/04/87	08/06/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
SAMPLE TYPE		71999	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
SITE TYPE 1		99759	OCMB	OCMB	OCMB	OCMB	OCMB	OCMB	OCMB	OCMB	OCMB	OCMB	OCMB
SAMPLE DEPTH		99758	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMPLE DEPTH	CM	0											
SAMPLING TECHNIQUE		72005	G	G	G	G	G	G	G	G	G	G	G
INSTALLATION CODE		99720	PK	PK	PK	PK	RI	PK	PK	PK	PK	PK	PK
MOISTURE		70320	0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
ALDRIN		98356	0	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94
ATRAZINE		98655	09	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73
CHLORDANE		98361	09	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
P-CLPHENILMETHY-		98653	09	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
SULFIDE		98654	09	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
P-CLPH-NIL-THY-		98654	09	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
SULFOXIDE		98703	09	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
P-CLPHENILMETHY-		98652	09	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SULFONE		98652	09	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
DECP (NEMAGON)		98651	09	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
DICYCLOPENTADIENE		98363	09	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
DDE, PP'		98364	09	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
DDT, PP'		98365	09	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
DIELDRIN		98645	09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DIMP		98650	09	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,4 DITHIANE		98657	09	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
DMPP		98369	09	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70
ENDRIN		98647	09	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
HEXACHLOROCYCLOPENT-		98649	09	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
ADIENE		98649	09	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
1550FIN		98649	09	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

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PROJECT NUMBER 84936 0100 PROJECT NAME RMA TASK 1  
 FIELD GROUP TIME PROJECT MANAGER  
 ALL LAB COORDINATOR JOE VONDRICK

PARAMETERS	UNITS	STORE #	METHOD	SAMPLE ID: #											
				BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME
DATE				07/15/87	07/23/87	07/23/87	07/23/87	07/28/87	08/05/87	08/04/87	07/30/87	08/04/87	08/06/87		
TIME				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00		
1,2-DICHLOROETHANE		98684													
UG/G-DRY		W9													
ETHCYCLOHEPTADIENE		98686													
UG/G-DRY		W9													
DECPINEMACON		98652													
UG/G-DRY		W9													



PROJECT NUMBER 84936 0300  
FIELD GROUP ALL  
PROJECT NAME RMA TASK 1  
PROJECT MANAGER  
LAB COORDINATOR JOE VONDRICA

PARAMETERS	UNITS	STORET #	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME
DATE			07/06/87	07/14/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87	07/21/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CHLOROFORM	UG/G-DRY	98682															
	UG/G-DRY	119															
1,2-DICHLOROETHANE	UG/G-DRY	98684															
	UG/G-DRY	119															
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692															
	UG/G-DRY	119															
ETHANE	UG/G-DRY	98680															
CARBON TETRACHLORIDE	UG/G-DRY	119															
	UG/G-DRY	98694															
TRICHLOROETHENE	UG/G-DRY	119															
	UG/G-DRY	98693															
1,1,2-TRICHLOROETHANE	UG/G-DRY	119															
	UG/G-DRY	98690															
ETHANE	UG/G-DRY	119															
TETRACHLOROETHENE	UG/G-DRY	98681															
	UG/G-DRY	119															
CHLOROBENZENE	UG/G-DRY	98686															
	UG/G-DRY	229															
BICYCLOHEPTADIENE	UG/G-DRY	98696															
	UG/G-DRY	229															
METHYL ISOBUTYLACETONE	UG/G-DRY	98651															
	UG/G-DRY	229															
DICYCLOPENTADIENE	UG/G-DRY	98651															
	UG/G-DRY	229															

## ENVIRONMENTAL SCIENCE &amp; ENGINEERING 05/11/86

PROJECT NUMBER 64936 0300 PROJECT NAME PMA TASK 1  
 FIELD GROUP TIME PROJECT MANAGER  
 ALL LAB COORDINATOR JOE VONDRICK

PARAMETERS	UNITS	STORET #	BLN TIME	BLN TIME	BLN TIME	BLN TIME	BLN TIME	SAMPLE ID/#
DATE			08/05/87	07/06/87	07/14/87	07/21/87	07/29/87	08/03/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00
SAMPLE TYPE		71999	SO	SO	SO	SO	SO	SO
SITE TYPE 1		99759	OCMB	OCMB	OCMB	OCMB	OCMB	OCMB
SAMPLE DEPTH		99758	0.0	0.0	0.0	0.0	0.0	0.0
CM		0						
SAMPLING TECHNIQUE		72005	G	G	G	G	G	G
INSTALLATION CODE		99720	RA	RA	RA	RA	RA	RA
SAMPLE		0						
MC/STUOE		70320	2.4	2.4	2.4	2.4	2.4	2.4
SMET WT		0						
HEXACHLOROCYCLOPENT-		98647						
ADIENE UG/G-DRY		SS9A						
ALDRIN, SED		98356						
UG/G- DRY		SS9A						
ISODRIN		98649						
UG/G-DRY		SS9A						
DOE, PP		98363						
UG/G-DRY		SS9A						
DIELDRIN		98365						
UG/G-DRY		SS9A						
ENDRIN		98369						
UG/G-DRY		SS9A						
DDT, PP		98364						
UG/G-DRY		SS9A						
CHLORDANE, SED		98361						
UG/G- DRY		SS9A						
BENZENE		98699						
UG/G-DRY		WH9						
TOLUENE		98691						
UG/G-DRY		WH9						
ETHYLBENZENE		98688						
UG/G-DRY		WH9						
M-XYLENE		98695						
UG/G-DRY		WH9						
O-AND/OF P-XYLENE		98700						
UG/G-DRY		WH9						
METHYLENE CHLORIDE		98689						
UG/G-DRY		Y19						
1,1-DICHLOROETHENE		98769						
UG/G-DRY		Y19						
1,1-DICHLOROETHANE		98683						
UG/G-DRY		Y19						
TRANS-1,2-DICHLOROET		98687						
HENE		Y19						

## ENVIRONMENTAL SCIENCE &amp; ENGINEERING 05/11/88

PROJECT NUMBER 8493E 0300 PROJECT NAME RMA TASK I  
 FIELD GROUP TIMB PROJECT MANAGER  
 ALL LAB COORDINATOR JOE VONDRICK

SAMPLE ID#  
 BLA BLA  
 TIMB TIMB  
 206 207

PARAMETERS	UNITS	STORET #	BLA TIME	BLA TIME	BLA TIME	BLA TIME	BLA TIME	BLA TIME	BLA TIME
DATE			08/05/87	07/06/87	07/09/87	07/14/87	07/21/87	07/27/87	08/03/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00

CHLOROFORM	UG/G-DRY	98682	<0.10						
1,2-DICHLOROETHANE	UG/G-DRY	98684	<0.06						
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692	<0.12						
CARBON TETRACHLORIDE	UG/G-DRY	98680	<0.12						
TRICHLOROETHENE	UG/G-DRY	98694	<0.09						
1,1,2-TRICHLOROETHANE	UG/G-DRY	98693	<0.12						
TETRACHLOROETHENE	UG/G-DRY	98690	<0.12						
CHLOROBENZENE	UG/G-DRY	98681	<0.18						
BICYCLOHEPTADIENE	UG/G-DRY	98686	<5.06	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08
METHYL ISOBUTYLACETONE	UG/G-DRY	98696	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24
DICYCLOPENTADIENE	UG/G-DRY	98651	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12

## ALL

ALL

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ENVIRONMENTAL SCIENCE & ENGINEERING 09/12/88  
 PROJECT NUMBER 84936 0300 PROJECT NAME RMA TASK 1  
 FIELD GROUP TIMB PROJECT MANAGER  
 ALL LAB COORDINATOR JOE VONDRICK

SAMPLE ID#

PARAMETERS	UNITS	STORY METHOD	BLK TIMB	BLK TIMB	BLK TIMB	BLK TIMB	BLK TIMB
DATE			11/30/87	12/07/87	12/16/88	01/05/88	01/11/88
TIME			00:00	00:00	00:00	00:00	00:00
SAMPLE TYPE		71999	SO	SO	SO	SO	SO
SITE TYPE 1		99759	QCHB	QCHB	QCHB	QCHB	QCHB
SAMPLE DEPTH		99758	0.0	0.0	0.0	0.0	0.0
CM							
SAMPLING TECHNIQUE		72005	G	G	G	G	G
INSTALLATION CODE		99720	RK	RK	RK	RK	RK
SAMPLE		70320	2.4	2.4	2.4	2.4	2.4
MOISTURE							
WET WT							
IRPA		97382					
UG/G		AAA9					
FLUOROACETIC ACID		97381					
UG/G		AAA9					
MPA		97383					
UG/G		AAA9					
THIODIGLYCOL		99798					
UG/G		MM9					
CHLOROACETIC ACID		97285					
UG/G		MM9					
ARSENIC, SED		1003					
UG/G- DRY		T9					
DIMP		98645					
UG/G- DRY		TT9					
DMHP		98657					
UG/G- DRY		TT9					
MERCURY, SED		71921	<0.050	<0.050	<0.050	<0.050	<0.050
UG/G- DRY		V9					

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ENVIRONMENTAL SCIENCE & ENGINEERING 09/12/88  
 PROJECT NUMBER 84936 0300  
 FIELD GROUP TIMB  
 ALL  
 PROJECT NAME RMA TASK 1  
 PROJECT MANAGER  
 LAB COORDINATOR JOE VONDRICK

SAMPLE ID/8

PARAMETERS	UNITS	STORCT METHOD	BLK TIMB 391	BLK TIMB 201	BLK TIMB 202	BLK TIMB 203
DATE TIME			12/08/87 00:00	12/11/87 00:00	01/07/88 01/11/88	01/11/88
SAMPLE TYPE		71999 0	SO	SO	SO	SO
SITE TYPE I		99759 0	OCMB	OCMB	OCMB	OCMB
SAMPLE DEPTH CM		99758 0	0.0	0.0	0.0	0.0
SAMPLING TECHNIQUE		72005 0	G	G	G	G
INSTALLATION CODE SAMPLE		99720 0	RK	RK	RK	RK
MOISTURE		70320 0	2.4	2.4	2.4	2.4
SWET WT		98651 W9	<0.27	<0.27	<0.27	<0.27
DICYCLOPENTADIENE UG/G-DRY		98687 W9	<0.25	<0.25	<0.25	<0.25
TRANS-1,2-DICHLOROET HENE UG/G-DRY		98688 W9	<0.25	<0.25	<0.25	<0.25
ETHYLBENZENE UG/G-DRY		98689 W9	0.83	0.66	1.1	1.3
METHYLENE CHLORIDE UG/G-DRY		98690 W9	<0.25	<0.25	<0.25	<0.25
TETRACHLOROETHENE UG/G-DRY		98691 W9	<0.25	<0.28	<0.28	<0.25
TOLUENE UG/G-DRY		98692 W9	<0.25	<0.25	<0.25	<0.25
1,1,1-TRICHLORO- ETHANE UG/G-DRY		98693 W9	<0.25	<0.25	<0.25	<0.25
1,1,2-TRICHLORO- ETHANE UG/G-DRY		98694 W9	<0.25	<0.25	<0.25	<0.25
TRICHLOROETHENE UG/G-DRY		98695 W9	<0.25	<0.25	<0.25	<0.25
M-XYLENE UG/G-DRY		98696 W9	<0.50	<0.50	<0.50	<0.50
MIBK UG/G-DRY		98697 W9	<0.25	<0.25	<0.25	<0.25
DHDS UG/G-DRY		98699 W9	<0.25	<0.25	<0.25	<0.25
BENZENE UG/G-DRY		98700 W9	<0.50	<0.50	<0.50	<0.50
O-AND/OR P-XYLENE UG/G-DRY		98680 W9	<0.25	<0.25	<0.25	<0.25
CARBON TETRACHLORIDE UG/G-DRY		98681 W9	<0.25	<0.25	<0.25	<0.25
CHLOROBENZENE UG/G-DRY		98682 W9	<0.25	<0.25	<0.25	<0.25
CHLOROFORM UG/G-DRY		98683 W9	<0.25	<0.25	<0.25	<0.25
1,1-DICHLOROETHANE UG/G-DRY			<0.25	<0.25	<0.25	<0.25

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ENVIRONMENTAL SCIENCE & ENGINEERING 09/12/88  
 PROJECT NUMBER B4936 0300 PROJECT NAME RMA TASK 1  
 FIELD GROUP TIMB PROJECT MANAGER  
 ALL LAB COORDINATOR JOE VONDRICK

SAMPLE ID/#

PARAMETERS	UNITS	STORET METHOD	BLK TIMB 391	BLK TIMB1 201	BLK TIMB1 202	BLK TIMB1 203
DATE TIME			12/08/87 00:00	12/11/87	01/07/88	01/11/88
1,2-DICHLOROETHANE		98684	<0.28	<0.28	<0.28	<0.28
UG/G-DRY	W9					
BICYCLOHEPTADIENE		98686	<0.25	<0.25	<0.25	<0.25
UG/G-DRY	W9					
DBCP (NEMACON)		98652	<0.33	<0.33	<0.33	<0.33
UG/G-DRY	W9					
UNK161		90161	30		20	50
UG/G	W9					
UNK160		90160		10		
UG/G	W9					
UNK041		90041			6	3
UG/G	W9					
UNK062		90062			6	6
UG/G	W9					

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